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ANNUAL REPORT  
OF  
The Boston City Hospital  
BOSTON, MASS.



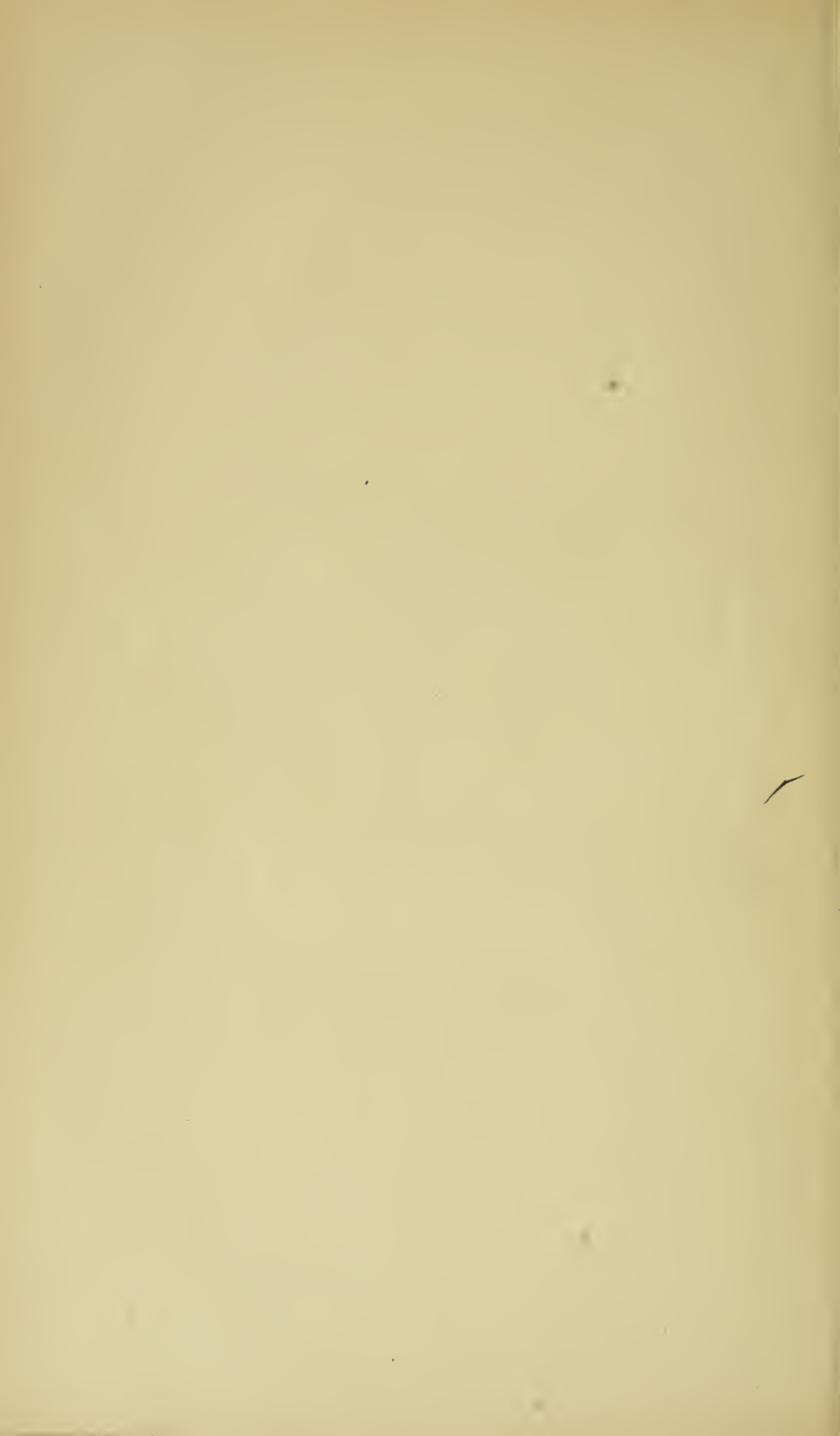
1923 - 1924

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Boston City Hospital





SIXTIETH ANNUAL REPORT  
OF  
THE TRUSTEES  
OF  
THE BOSTON CITY HOSPITAL  
INCLUDING THE  
REPORT OF THE SUPERINTENDENT  
UPON THE  
HOSPITAL PROPER  
THE SOUTH DEPARTMENT FOR INFECTIOUS DISEASES  
THE HAYMARKET SQUARE RELIEF STATION  
THE EAST BOSTON RELIEF STATION  
THE CONVALESCENT HOME AT DORCHESTER  
THE WEST DEPARTMENT  
AND ALSO THE  
RULES FOR ADMISSION, DISCHARGE AND GOVERNMENT  
OF PATIENTS, ETC.  
FOR THE SIXTIETH YEAR  
FEBRUARY 1, 1923, TO JANUARY 31, 1924, INCLUSIVE



CITY OF BOSTON  
PRINTING DEPARTMENT  
1924

6359.17

Boston Life Hospital  
Feb 26 1925

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BOSTON LIFE HOSPITAL

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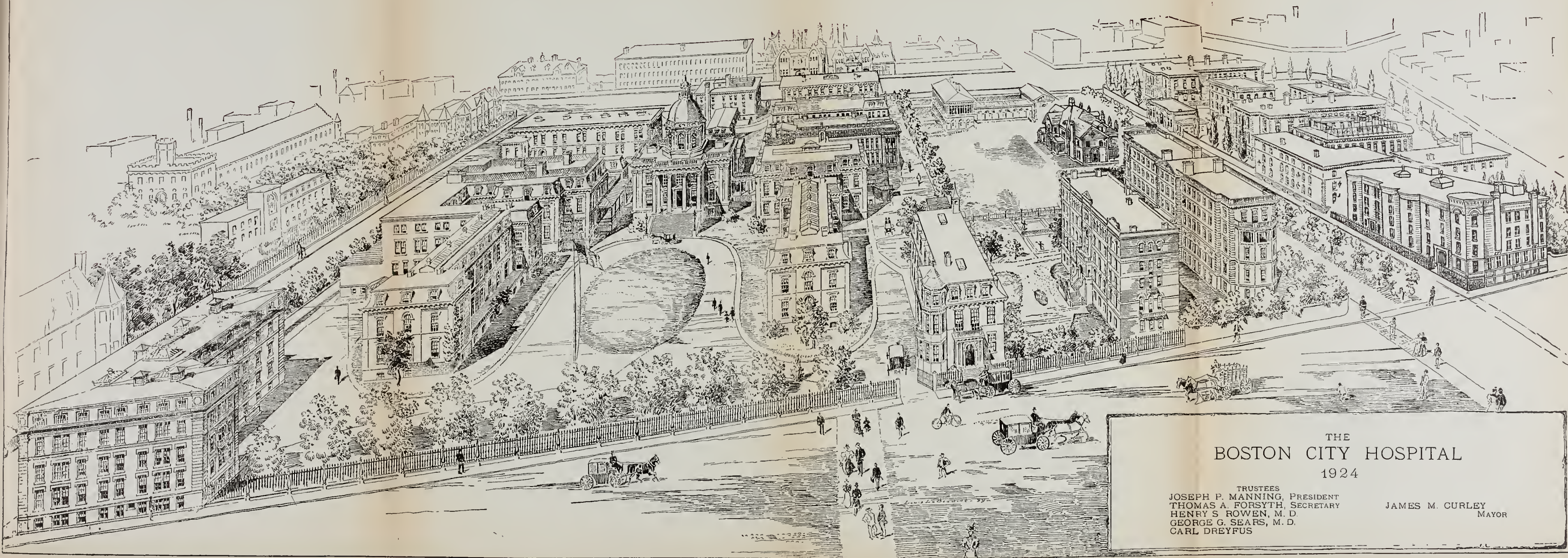
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THE  
BOSTON CITY HOSPITAL  
1924

TRUSTEES  
JOSEPH P. MANNING, PRESIDENT  
THOMAS A. FORSYTH, SECRETARY  
HENRY S. ROWEN, M. D.  
GEORGE G. SEARS, M. D.  
CARL DREYFUS

JAMES M. CURLEY  
MAYOR





SIXTIETH ANNUAL REPORT  
OF THE  
TRUSTEES  
OF  
THE BOSTON CITY HOSPITAL

WITH  
REPORT OF THE SUPERINTENDENT

THE HOUSE RULES, WITH RULES FOR ADMISSION, DIS-  
CHARGE AND GOVERNMENT OF PATIENTS, ETC.

FOR THE  
SIXTIETH YEAR, FEBRUARY 1, 1923, TO  
JANUARY 31, 1924, INCLUSIVE.

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TRUSTEES.

JOSEPH P. MANNING, <i>President</i>	. . .	Term expires in 1926.
THOMAS A. FORSYTH, <i>Secretary</i>	. . .	Term expires in 1924.
HENRY S. ROWEN, M. D.	. . .	Term expires in 1927.
GEORGE G. SEARS, M. D.	. . .	Term expires in 1928.
CARL DREYFUS	. . .	Term expires in 1925.

---

MEDICAL AND SURGICAL STAFF.

*Consulting Physicians and Surgeons.*

Edward H. Bradford, M. D.	George H. Monks, M. D.
V. Y. Bowditch, M. D.	Morton Prince, M. D.
Abner Post, M. D.	Elliott P. Joslin, M. D.
H. W. Cushing, M. D.	Henry Jackson, M. D.
F. S. Watson, M. D.	George G. Sears, M. D.
John Bapst Blake, M. D.	

*Consulting Pathologist.*

William T. Councilman, M. D.

*Consultant in Tropical Diseases.*

Richard P. Strong, M. D.

*Consultant in Ophthalmology.*

Allen Greenwood, M. D.

*Consulting Aural Surgeon.*

Rockwell A. Coffin, M. D.

*Curator of the Hospital Museum.*

Townsend W. Thorndike, M. D.

*Superintendent and Medical Director.*

John J. Dowling, M. D.

*Senior Physician.*

Francis H. Williams, M. D.

*Visiting Physicians.*

John L. Ames, M. D.	Franklin W. White, M. D.
William H. Robey, M. D.	Edwin A. Locke, M. D.
Ralph C. Larrabee, M. D.	Edward N. Libby, M. D.
Francis W. Peabody, M. D.	

*First Assistant Visiting Physicians.*

Francis W. Palfrey, M. D.	Cadis Phipps, M. D.
Harold W. Dana, M. D.	

*Second Assistant Visiting Physicians.*

Thomas J. O'Brien, M. D.	Thomas E. Buckman, M. D.*
Albert A. Hornor, M. D.†	George C. Shattuck, M. D.†
Martin J. English, M. D.*	Louis J. Ullian, M. D.
William R. Ohler, M. D.	Dwight O'Hara, M. D.
Edmund F. Walsh, M. D.	Henry Jackson, Jr., M. D.
Burton E. Hamilton, M. D.	Augustine W. McGarry, M. D.*
Harry A. Nissen, M. D.	Andrew Nichols, M. D.*
Joseph M. Lynch, M. D.	Joseph Garland, M. D.*
Joseph E. Hallisey, M. D.	John F. Fennessey, M. D.
John A. Foley, M. D.	Eli F. Friedman, M. D.*

\* Pediatric Service.

† Tropical Diseases.



*Assistants to Visiting Physicians.*

Hyman A. Novack, M. D. <sup>1</sup>	Henry Baker, M. D. <sup>2</sup>
F. R. Brown, M. D. <sup>2</sup>	I. R. Jankelson, M. D. <sup>3</sup>
William A. White, Jr., M. D. <sup>4</sup>	

*Senior Surgeons.*

George W. Gay, M. D.	Charles M. Green, M. D.¶
----------------------	--------------------------

*Surgeons-in-Chief.*

Paul Thorndike, M. D.	Frederic J. Cotton, M. D.
Fred B. Lund, M. D.	Joshua C. Hubbard, M. D.
Howard A. Lothrop, M. D.	Nathaniel R. Mason, M. D.¶

*Visiting Surgeons.*

David D. Scannell, M. D.	Frank H. Lahey, M. D.
Horace Binney, M. D.	Halsey B. Loder, M. D.
Robert M. Green, M. D.¶	Irving J. Walker, M. D.

*First Assistant Visiting Surgeons.*

John T. Williams, M. D.¶	Otto J. Herman, M. D.
Frederick L. Good, M. D.¶	Somers Fraser, M. D.
Arthur R. Kimpton, M. D.	Francis F. Henderson, M. D.
Robert C. Cochrane, M. D.	Herbert H. Howard, M. D.
Joseph P. Cohen, M. D.¶	

*Out-Patient Surgeons.*

James J. Hepburn, M. D.	Howard M. Clute, M. D.
Donald Munro, M. D.	Joseph H. Shortell, M. D.
Augustus Riley, M. D.	

*Assistants to Out-Patient Surgeons.*

Harold V. Hyde, M. D.¶	Thomas K. Richards, M. D.
William R. Morrison, M. D.	Frederick J. Lynch, M. D.¶
Edward Harding, M. D.	Thomas W. Wickham, M. D.
Paul Gustafson, M. D.	

<sup>1</sup> Appointed for three months beginning November 1, 1923.<sup>2</sup> Appointed for six months beginning November 23, 1923.<sup>3</sup> Appointed for six months beginning December 8, 1923.<sup>4</sup> Appointed for six months beginning December 21, 1923.

¶ Gynecological service.

*Temporary Assistants to Out-Patient Surgeons.*

William R. Supple, M. D. <sup>5</sup>	Benedict F. Boland, M. D. <sup>9</sup>
George W. Papan, M. D. <sup>6</sup>	Gordon D. Atkinson, M. D. <sup>10</sup>
Samuel Nadel, M. D. <sup>7</sup>	Edward M. Hodgkins, M.D. <sup>11</sup>
Richard I. Smith, M. D. <sup>8</sup>	Edward B. Ormsby, M. D. <sup>11</sup>
David D. Greene, M. D. <sup>8</sup>	Joseph H. Burnett, M. D. <sup>12</sup>

*Anesthetists.*

Frank L. Richardson, M. D.	Nathaniel N. Morse, M. D.
Lincoln F. Sise, M. D.	

*Oral Surgeon-in-Chief.*

Stephen P. Mallett, D. M. D.

*Oral Surgeons.*

William H. Canavan, D. M. D. | Thomas Hennessey, D. M. D.

*Dentist.*

Douglass M. Baker, D. M. D.

*Visiting Ophthalmic Surgeon.*

Henry B. Stevens, M. D.

*Ophthalmic Surgeons.*

Jeremiah J. Corbett, M. D. | L. Colby Rood, M. D.  
Leon W. Jessaman, M. D.

*Assistants to the Ophthalmic Surgeons.*

Joseph J. Skirball, M. D. | Jeffrey J. Walsh, M. D.

*Senior Surgeon for Diseases of Ear and Throat.*

George A. Leland, M. D.

*Visiting Surgeon for Diseases of Ear and Throat.*

Harry P. Cahill, M. D.

---

<sup>5</sup> Appointed for six months beginning August 17, 1923.

<sup>6</sup> Appointed for six months beginning September 1, 1923.

<sup>7</sup> Appointed for six months beginning September 7, 1923.

<sup>8</sup> Appointed for six months beginning October 5, 1923.

<sup>9</sup> Appointed for six months beginning November 2, 1923.

<sup>10</sup> Appointed for six months beginning December 8, 1923.

<sup>11</sup> Appointed for six months beginning January 18, 1924.

<sup>12</sup> Appointed for six months beginning January 25, 1924.

*Surgeon for Diseases of Ear and Throat.*

Louis M. Freedman, M. D.

*Assistant Surgeons for Diseases of Ear and Throat.*

William T. Haley, M. D.	William F. Regan, M. D.
Edward J. Monahan, M. D.	Edmund J. Butler, M. D.
Philip E. A. Sheridan, M. D.	Philip R. Dwyer, M. D.
Chester R. Mills, M. D.	

*Visiting Surgeon for Oral and Plastic Surgery.*

Varaztad H. Kazanjian, M. D.

*Visiting Physicians for Diseases of the Nervous System.*

John J. Thomas, M. D. | Arthur W. Fairbanks, M. D.

*First Assistant Visiting Physician for Diseases of the Nervous System.*

Abraham Myerson, M. D.

*Second Assistant Visiting Physicians for Diseases of the Nervous System.*

Miner H. A. Evans, M. D. | Percy L. Dodge, M. D.

*Temporary Assistant to the Physician for Diseases of the Nervous System.*

M. Winthrop O'Connell, M. D.\*

*Physicians for Physical Therapeutics.*

Frank B. Granger, M. D. | Robert E. Bonney, M. D.

*Assistant Physician for Physical Therapeutics.*

Joseph Resnik, M. D.

*Physician for Diseases of the Skin.*

Townsend W. Thorndike, M. D.

*Assistants to the Physician for Diseases of the Skin.*

William P. Boardman, M. D.	M. C. vonGroll, M. D.
Walter T. Garfield, M. D.	

\* Appointed for six months beginning October 1, 1923.

*Pathologist.*

F. B. Mallory, M. D.

*Director of Thorndike Laboratory.*

Francis W. Peabody, M. D.

---

*Physician for Infectious Diseases.*

Edwin H. Place, M. D.

---

*Physician for X-Ray Service.*

Paul F. Butler, M. D.

*Assistant Physician for X-Ray Service.*

Max Ritvo, M. D.

---

*Visiting Physician for Immunology.*

George P. Sanborn, M. D.

*Assistant Physician for Immunology.*

Edmund F. Walsh, M. D.

*Assistant in Department for Immunology.*

Leroy A. Luce, M. D.

---

*Physicians to the Convalescent Home.*

John P. Treanor, M. D.

Henry F. R. Watts, M. D.

Bradford Kent, M. D.

## HOUSE OFFICERS.

The following named House Officers have completed service during the past year:

Clarence F. Friedman, M. D., Medical Service . . . . .	15 months
Aubrey C. Benjamin, M. D., Medical Service . . . . .	20 months
Morris Prizer, M. D., Medical Service . . . . .	17 months
Maurice Lugitch, M. D., Medical Service . . . . .	20 months
Eliot H. Luther, M. D., Medical Service . . . . .	20 months
Emry G. Hyatt, M. D., Medical Service . . . . .	19 months
Abraham H. Yudelmau, M. D., Medical Service . . . . .	16 months
Erastus I. Guller, M. D., Medical Service . . . . .	20 months
John J. Dunphy, M. D., Medical Service . . . . .	20 months
Earle H. Brennen, M. D., Medical Service . . . . .	18 months
Henry Baker, M. D., Medical Service . . . . .	17 months
Frank Fremont-Smith, M. D., Medical Service . . . . .	17 months
William A. White, M. D., Surgical Service . . . . .	20 months
Saul Berman, M. D., Surgical Service . . . . .	20 months
Samuel R. Webber, M. D., Surgical Service . . . . .	20 months
John H. Ogilvie, M. D., Surgical Service . . . . .	20 months
Edwin F. Schneiders, M. D., Surgical Service . . . . .	20 months
Jesse B. Naive, M. D., Surgical Service . . . . .	20 months
Henry S. Finkel, M. D., Surgical Service . . . . .	20 months
Howard A. Bouvé, M. D., Surgical Service . . . . .	20 months
John E. Hopkins, M. D., Surgical Service . . . . .	20 months
Francis X. Shea, M. D., Surgical Service . . . . .	20 months
Aaron Thurman, M. D., Surgical Service . . . . .	20 months
Winchester W. Everett, M. D., Surgical Service . . . . .	20 months
Reuben B. Davidoff, M. D., Surgical Service . . . . .	18 months
Harold H. Rosenfield, M. D., Surgical Service . . . . .	25 months
William J. McDonald, M. D., Surgical Service . . . . .	18 months
Paul G. Haire, M. D., Ophthalmic and Aural Service . . . . .	16 months
Antonio C. Ventrone, M. D., Ophthalmic and Aural Service . . . . .	19 months
Harry Schwartzman, M. D., Ophthalmic and Aural Service . . . . .	19 months
Maurice W. O'Connell, M. D., Neurological Service . . . . .	13 months

William W. Dorfman, M. D., Neurological Service . . . . .	12 months
Benjamin Pollack, M. D., Neurological Service . . . . .	11 months
Edward S. Mills, M. D., Pathological Service . . . . .	9 months
Ralph C. McLeod, M. D., Pathological Service . . . . .	12 months
Leon G. Zervas, M. D., Pediatric Service . . . . .	9 months
Russell R. Hippensteel, M. D., Pediatric Service . . . . .	8 months

## HOUSE OFFICERS ON DUTY.

(February 1, 1924.)

## MEDICAL SERVICE.

*House Physicians.*

John J. Hartigan.	Bernard I. Goldberg.
George Kahn.	Donald S. McKinnon.

*Senior Internes.*

David H. Flashman.	Bernard Appel.
William D. O'Leary.	Joseph Goldman.

*Externes.*

Thomas F. Reilly.	Thomas D. Christian, Jr.
Willard O. Thompson.	Millard Smith.

*Junior Internes.*

William Damesheh.	Myer Marlin.
Edwin D. Reynolds.	John Huston.

## SURGICAL SERVICE.

*House Surgeons.*

Michael E. McGarty.	Marion F. Eades.
Benedict B. Landry.	Maurice F. O'Connell.
Josiah R. Eisaman.	

*Senior Internes.*

John A. Seth.	Kenneth L. MacLachlan.
Newton C. Browder.	Clarence H. Falstad.
Edward T. Evans.	

*Accident Floor House Officer.*

John J. Cochran.

*Externes.*

Arthur B. Donovan.	Cushman D. Haagensen.
Harry C. Lapp.	Daniel C. Goldfarb.
Frank H. Baehr.	

*Junior Internes.*

Allan L. Davis.	Leland H. Taylor.
David S. Green.	John V. McMackin.
John D. Ball.	



## ANNUAL REPORT OF

## GYNECOLOGICAL SERVICE.

*House Surgeon.*

Kenneth C. Farnsworth.

*Senior Interne.*

Palmer E. Sutton.

*Externe.*

Edward T. Downey.

*Junior Interne.*

Arthur H. Perkins.

## OPHTHALMIC AND AURAL SERVICE.

*Resident Surgeon.*

Fred Heimlich.

*Senior Interne, Aural Service.*

Oscar Rodin.

*Senior Interne, Ophthalmic Service.*

Harry Fein.

*Junior Interne.*

Abraham H. Yudelman.

## NEUROLOGICAL SERVICE.

*House Physician.*

Alexander E. Balboni.

*Senior Interne.*

John S. Harlow, Jr.

*Externe.*

Herman G. Selinsky.

## PATHOLOGICAL SERVICE.

*Senior Interne.*

Arthur W. Wright.

*Junior Interne.*

Franz G. Edwards.



PEDIATRIC SERVICE.

*House Physician.*

Edward C. Smith.

*Senior Interne.*

Earle H. Brennen.

*Externe.*

Charles H. Griffin.

*Junior Interne.*

Thomas M. Barber.

SERVICE FOR TROPICAL DISEASES.

Julius Gottlieb.

X-RAY SERVICE.

Samuel M. Atkins.

PNEUMONIA SERVICE.

William T. O'Halloran.

HOUSE OFFICERS AT SOUTH DEPARTMENT.

Richard J. Lebowich.

Saul M. Marcus.

John P. Treanor.

Leon G. Zerfas.

HOUSE OFFICERS AT HAYMARKET SQUARE RELIEF STATION.

Joseph V. Taylor.

Thomas P. Kendrick.

Daniel J. Duggan.

## HOSPITAL OFFICERS.

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John J. Dowling, M. D., *Superintendent and Medical Director.*  
Edmund W. Wilson, M. D., *Assistant Superintendent.*  
James W. Manary, M. D., *First Executive Assistant.*  
Francis S. Brodrick, M. D., *Second Executive Assistant.*  
M. Winthrop O'Connell, M. D., *Third Executive Assistant.*  
Lawrence A. Betteridge, M. D., *Night Executive Assistant.*  
Robert M. Coleman, M. D., *Resident Surgeon.*  
Francis X. Shea, M. D., *Resident Anesthetist.*  
Frank B. Mallory, M. D., *Pathologist.*  
Francis W. Peabody, M. D., *Director of the Thorndike Laboratory.*  
Paul F. Butler, M. D., *Physician for X-Ray Service.*  
John Ferrin, *Chief Apothecary.*  
Miss Emma M. Nichols, *Counselloer to the Training School.*  
Miss Ellen C. Daly, *Superintendent of Nurses and Matron.*  
Miss Gertrude L. Farmer, *Director of Social Work.*  
Miss Joanna E. Sweeney, *Registrar.*

## SOUTH DEPARTMENT.

John J. Dowling, M. D., *Medical Director.*  
Edwin H. Place, M. D., *Physician-in-Chief.*  
Miss Julia E. F. Gertz, *Assistant Superintendent of Nurses and Matron.*

## HAYMARKET SQUARE RELIEF STATION.

John G. Breslin, M. D., *Resident Surgeon.*  
Bernard F. Devine, M. D., *Assistant Resident Surgeon.*  
Miss Agatha P. McKenna, *Matron.*

## EAST BOSTON RELIEF STATION.

George E. Allen, M. D., *Resident Surgeon.*  
Arthur G. Holland, M. D., *Assistant Resident Surgeon.*

## CONVALESCENT HOME.

Miss Elizabeth C. Fairbank, *Matron.*

## MEDICAL AND ADMINISTRATIVE ASSISTANTS.

- Thomas E. Buckman, M. D., *Hematologist.*  
Frederic Parker, Jr., M. D., *Assistant Pathologist.*  
Cheng Hsiang Hu, M. D., *Research Assistant in Pathology.*  
Shields Warren, M. D., *First Assistant in Pathology.*  
Charles F. Branch, M. D., *Second Assistant in Pathology.*  
William R. Ohler, M. D., *Assistant in Clinical Pathology.*  
Henry Jackson, Jr., M. D., *Assistant in the Thorndike Laboratory.*  
Robert N. Nye, M. D., *Assistant in the Thorndike Laboratory.*  
Joseph T. Wearn, M. D., *Assistant in the Thorndike Laboratory.*  
Gulli Lindh Muller, M. D., *Assistant in the Thorndike Laboratory.*  
Goronwy O. Broun, M. D., *Resident Physician and Assistant in the Thorndike Laboratory.*  
Percy B. Davidson, M. D., *Resident Physician and Assistant in the Thorndike Laboratory.*  
Karl F. Pelkan, M. D., *Resident Physician and Assistant in the Thorndike Laboratory.*  
Hermann Blumgart, M. D., *Resident Physician and Assistant in the Thorndike Laboratory.*  
Max Ritvo, M. D., *Assistant Physician for X-Ray Service.*  
Richard C. Tefft, M. D., *Resident Physician for Pediatric Service.*  
Dan C. Darrow, M. D., *Assistant Resident Physician for Pediatric Service.*  
Edmond F. Walsh, M. D., *Clinical Bacteriologist.*  
Clarence F. Friedman, M. D., *Resident Physician for Pneumonia Cases.*  
Donald King, M. D., *Volunteer Assistant in the Thorndike Laboratory.*  
John H. Foster, M. D., *Volunteer Assistant in the Thorndike Laboratory.*  
Walfrido de Leon, M. D., *Volunteer Assistant in the Thorndike Laboratory.*

## SOUTH DEPARTMENT.

- Morris Prizer, M. D., *Assistant Physician.*  
Richard Watson, M. D., *Assistant Physician.*  
John J. Dunphy, M. D., *Assistant Physician.*

## REPORT OF THE TRUSTEES.

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BOSTON, February 1, 1924.

HON. JAMES M. CURLEY,  
*Mayor of the City of Boston:*

SIR,— In compliance with the ordinances, the trustees of the Boston City Hospital present the following report of its condition for the year ending January 31, 1924.

This is the sixtieth annual report of the Hospital Department, which consists of the main hospital, the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home in Dorchester.

The Board of Trustees was organized on May 8, 1923, by the election of Mr. Joseph P. Manning as president and Mr. Thomas A. Forsyth as secretary.

In May Dr. George G. Sears was reappointed to the Board of Trustees for the term ending April 30, 1928.

## EXPENDITURES.

The total operating expenditures for all departments of the hospital during the fiscal year were \$1,475,681.88. Of the total operating expenses, \$1,013,606.57 was expended upon the hospital proper and its subdivisions; \$96,457.32 on account of the Out-Patient Department; \$257,907.90 on account of the South Department; \$62,925.10 on account of the Haymarket Square Relief Station; \$30,346.64 on account of the East Boston Relief Station and \$14,438.35 for the Convalescent Home. Of the amount spent on Laboratories, \$73,401.35, \$63,849.72 is included in the hospital proper expenditures, \$4,608.33 in the Out-Patient Department, and \$4,943.30 in the South Department expenditures. Of the total amount spent on the X-Ray Laboratory and Photographic Department, \$37,380.99, \$16,821.45

is charged to the hospital proper, \$19,811.92 to the Out-Patient Department and \$747.62 to the South Department. Of the total amount spent on the Department of Physical Therapeutics, \$12,793, \$1,151.37 is charged to the hospital proper and \$11,641.63 to the Out-Patient Department. Of the total amount spent in the Department of Social Work, \$13,134.71, \$4,597.15 is charged to the hospital proper, \$8,012.17 to the Out-Patient Department and \$525.39 to the South Department. Of the total amount spent in ascertaining the settlement of patients, \$1,376.75, \$826.05 was spent on the hospital proper and \$550.70 on the South Department.

In Table No. 2 the expenditures on the hospital proper and the South Department are combined under the title Main Hospital.

The methods of obtaining the per capita cost in the various departments are shown in Tables No. 1 and No. 2 of the superintendent's report. From the total operating expenses are deducted the increases in stock on hand at the end of the year over that at the beginning of the year (or the decreases are added, as the case may require). There is also deducted the cost of new construction (installation of oil-burning equipment, installation of thorophone system and changing fire pipe from low to high pressure service). This gives the amount properly chargeable to maintenance. This cost of maintenance is divided by the number of days' board given ward patients or the number of visits of out-patients, to obtain the per capita cost per patient.

The per capita cost at the hospital proper was \$3.41 per day for ward patients; at the South Department, \$3.12; but, taking the hospital proper and the South Department together, the per capita cost per ward patient was \$3.34. At the Convalescent Home the per capita cost per patient was \$2.60 per day. The cost of out-patients per visit, was 49 cents at the hospital proper, \$1.80 at the Haymarket Square Relief Station, and \$1.17 at the East Boston Relief Station. The cost



of uncooked food supplies for the hospital in all its departments has been \$2.90 per person per week, or 41 cents per day.

#### PAYING PATIENTS.

During the year there has been collected for the care and treatment of patients of all classes the sum of \$193,740.75, itemized as follows: There was received from the Commonwealth of Massachusetts for the board of patients at the hospital proper, \$29,056.66; at the South Department, \$246; from various cities and towns for hospital proper, \$21,787.81; collected at the Superintendent's office, on account of private room, ward and Out-Patient Department paying patients, \$99,568.98; of which \$18,873.46 was from insurance cases; for board of paying patients at the South Department, \$7,425.66; on account of ward and Out-Patient Department paying patients at the Haymarket Square Relief Station, \$4,197.72, of which \$2,661.16 was from insurance cases; on account of ward and Out-Patient Department paying patients at the East Boston Relief Station, \$1,051.76; \$848.59 of this being from insurance cases. There was also collected in all departments, \$5,306 on account of insurance cases, \$3,312 of this being for X-ray cases and \$1,994 being for clinical record fees.

There has also been collected for the hospital, by the Health Department for the care of infectious cases at the South Department, and paid to the City Collector the additional sum of \$25,100.16. \$114,412.75 of the income from paying patients was collected by the Overseers of the Public Welfare. The revenue was increased \$16,104 by X-ray charges. It was also increased \$27,357.75 by removal of tonsils and adenoids, electro-cardiograms, issuing of *ex-officio* statements, circumcisions, payment of nurses' board and record fees.

A table showing the revenue received from paying patients, interest on trust funds, sale of old material and other sources, will be found on page 103 of the Superintendent's report.

The following is a tabular statement of the income from paying patients:

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	All Departments.	Totals.
Collected at the Hospital:						
From the state.....	\$29,056 66	\$246 00	.....	.....	.....	\$29,302 66
From cities and towns..	21,787 81	.....	.....	.....	.....	21,787 81
From ward and private room patients:						
Miscellaneous cases,	68,343 52	7,425 66	\$1,218 56	\$81 17	.....	77,068 91
X-ray cases.....	12,352 00	.....	318 00	122 00	.....	12,792 00
From insurance cases:						
House cases.....	15,517 46	.....	732 16	20 59	.....	16,270 21
Out-patient cases.....	3,356 00	.....	1,929 00	828 00	.....	6,113 00
X-ray cases.....	.....	.....	.....	.....	\$3,312 00	3,312 00
Record fees.....	.....	.....	.....	.....	1,994 00	1,994 00
Totals.....	\$150,413 45	\$7,671 66	\$4,197 72	\$1,051 76	\$5,306 00	\$168,640 59
Collected by City Collect- or for contagious cases,	.....	25,100 16	.....	.....	.....	25,100 16
Totals.....	\$150,413 45	\$32,771 82	\$4,197 72	\$1,051 76	\$5,306 00	\$193,740 75

### OUT-PATIENT BUILDING.

During the past year the new Out-Patient Building has been completed and was accepted by the Trustees on February 1, 1924. The following statement is a summary of its finances:

#### *City Hospital Improvements.*

Loan appropriation . . . . .	\$629,000 00
Transferred to:	
The Thorndike Memorial . . . . .	\$17,000 00
Sprinkler System, Main Hos- pital . . . . .	350 00
	<hr/> 17,350 00
	\$611,650 00
Expended . . . . .	534,839 62
	<hr/> \$76,810 38
Balance January 31, 1924 . . . . .	

## THE THORNDIKE MEMORIAL.

The Thorndike Memorial Laboratory has reached completion.

On November 15 the formal opening was held in the Laboratory Amphitheater.

Addresses were made by Dr. Henry S. Rowen, trustee, by his Honor, Mayor James M. Curley, by Dr. William J. Mayo of Rochester, Wisconsin, and by Dr. Townsend W. Thorndike, son of Dr. William H. Thorndike, to whose memory the money for this building was given by his brother, Hon. George L. Thorndike. Doctor Mayo spoke on "Problems Underlying Public Hospital Administration," his opening remarks being as follows:

The opening of the Thorndike Memorial Laboratory marks an epoch in the conduct of municipal hospitals. It is the first recognition by a municipality of the practical value of research, and this recognition in itself is a lasting tribute to the vision and philanthropy of the donor, George L. Thorndike.

The following paragraphs regarding the building are taken from the *Boston Medical and Surgical Journal*.

By the terms of the will of the late Mr. George L. Thorndike, whose brother, Dr. William H. Thorndike, was for many years an eminent member of the surgical staff of the Boston City Hospital, the residuary estate was to be held until it had accumulated to the sum of two hundred thousand dollars, when it was to be given to the Trustees of the Boston City Hospital for the construction of a building which should be equipped and subsequently supported by the municipality. After due consideration of the problem and its possibilities the trustees decided that the welfare of their institution would be best served by a building which would provide space for a thoroughly modern X-ray department and at the same time give opportunities for carrying on research in the various branches of clinical medicine. The recently completed building testifies to the success with which those objects have been carried out. The basement and ground floor contain ample space for the X-ray examination and treatment of patients from the House



and Out-patient Departments, and the complete installation of new equipment makes this division which has been suffering from limited space and imperfect apparatus, unsurpassed in its possibilities.

The three upper floors are devoted to research. One of these is a ward for about twenty patients, who will be in small rooms holding from one to six beds; and above it are two floors of laboratories, equipped for general and physical chemistry, physiology and bacteriology. The work in this department will be carried out in part by paid men, who are devoting themselves largely to research and in part by clinical members of the Hospital Staff, who desire to give a limited amount of time to the investigation of special problems. The establishment of this unit as an integral part of a general hospital, with its enormous reservoir of clinical material of almost every conceivable type, makes an ideal opportunity for the study of disease, and the installation of the research division in the very midst of the hospital, ensures an intimate relationship between the research service and the general services, which will work to the benefit of both. The investigators in the Thorndike Laboratory cannot remain remote or isolated from the problems of medical practice, for these problems must press upon them owing to the very propinquity of the general wards; the physicians and surgeons in charge of the wards, on the other hand, cannot fail to be stimulated and benefited by the researches which are undertaken in the laboratory.

Following is a statement of the Thorndike Fund, also of the Appropriation for Furnishing and Equipping the Laboratory:

*The Thorndike Memorial.*

From trustees of estate of George L. Thorndike,	\$237,500 00
Interest . . . . .	19,501 69
Loan appropriation . . . . .	150,000 00
Transfer from City Hospital Improvements .	17,000 00
Transfer from Thorndike Memorial Laboratory, Furnishing and Equipping . . . . .	8,000 00
	<hr/>
	\$432,001 69
Expended . . . . .	398,887 03
	<hr/>
Balance January 31, 1924 . . . . .	<u>\$33,114 66</u>

During the year an additional \$10,000 was received from trustees of estate of George L. Thorndike, making \$237,500 from the estate.

*Thorndike Memorial Laboratory Furnishing and Equipping.*

Loan appropriation . . . . .	\$65,000 00
Transferred to the Thorndike Memorial . . . . .	8,000 00
	<hr/>
	\$57,000 00
Expended . . . . .	51,231 25
	<hr/>
Balance January 31, 1924 . . . . .	<u>\$5,768 75</u>

*Sprinkler System, Main Hospital.*

The installation of the sprinkler system begun last year, has been completed this year.

A statement of the account follows:

Transferred from South Department, New Buildings, etc. . . . .	\$4,190 83
Transferred from Power Heating Plant, Deer Island . . . . .	20,809 17
Transferred from Reserve Fund . . . . .	4,000 00
Transferred from City Hospital Improvements . . . . .	350 00
	<hr/>
	\$29,350 00
Expended . . . . .	25,479 60
	<hr/>
Balance January 31, 1924 . . . . .	<u>\$3,870 40</u>

On account of the overcrowded conditions in the hospital, sketches and plans were made for new buildings. To provide for this work, a loan appropriation of \$180,000 for Hospital Buildings, Plans, etc., was granted, \$20,000 of this being issued.

During the past year two of the coal burning boilers were changed so that oil could be used as well as coal, thus making six boilers so equipped. It is hoped that the remaining two boilers may be so equipped next year, as well as the boilers at the Relief Stations.

Another improvement made this year has been the changing of the fire pipe from low service to high service.

The Thorophone System has been installed during the year. This makes easier the locating of people needed for telephone calls.

In June the hospital purchased seven radium needles at a cost of \$7,350, for deep therapy purposes. This fills a long felt want, although a greater amount could well be used. It is hoped more can be purchased in the near future.

#### MEDICAL DEPARTMENT.

The work of the Medical Department during the past year has been maintained at its usual high standard of efficiency. Modern methods of value in the diagnosis and treatment of disease have been freely utilized. A considerable number of diabetic patients have been afforded the benefit of treatment with the new remedy — insulin. The Blood Laboratory, under the direction of Dr. R. C. Larabee, has rendered much valuable service in the investigation of cases of anemia, and thereby has opened the way for more efficient treatment. The Nephritic Laboratory, under Dr. W. R. Ohler, has added very much to a better understanding and management of patients suffering from Bright's disease. Much valuable instruction has been given by various members of the medical staff to medical students and physicians already in practice.

#### SURGICAL DEPARTMENT.

The four Surgical Services under the supervision of Doctor Lund, Doctor Cotton, Doctor Lothrop and Doctor Hubbard, are efficiently organized and doing good work.

The new "teaching service" (Fifth Surgical) is properly started and in good condition under the leadership of Doctor Lahey, assisted by Doctor Cochrane, Doctor Hermann and Doctor Munro.

We feel certain that both the clinical and the teaching

aspects of the Surgical Department will henceforth be more efficient than ever before in the history of the hospital.

#### GYNECOLOGICAL AND OBSTETRICAL SERVICE.

The past year has been busier than any previous one in the history of the Gynecological and Obstetrical Service, both in the House and in the Out-Patient Department.

The number of obstetrical cases handled continues to increase. In 1920, 403 deliveries were cared for, in 1921, 565; in 1922, 652, and during this past year, 728. This increased amount of work has been taken care of with the same existing facilities as in past years. Unless enlarged quarters can be provided in the near future serious results seem almost certain to occur.

The work of the Visiting Staff, the House Staff and the Nursing Staff has been eminently satisfactory. The Social Service has continued to be most helpful. Daily teaching for men in the Harvard Medical School has been continued in the wards. Thirty-six lectures in obstetrics have been given to the nurses by the Visiting Staff.

Following are the principal statistics of the Service for the past year:

##### *House Cases.*

Cases admitted to Gynecological and Obstetrical Service . . . . .	2,727
Number of mothers delivered . . . . .	728

Maternal deaths, 14, or 1.9 per cent of all mothers delivered; 418 or 57 per cent of the mothers delivered came from the prenatal clinic in the Out-Patient Department.

##### *Out-Patients.*

Patients treated:	
Obstetrical cases in pre-natal clinic . . . . .	674
Gynecological cases . . . . .	1,079
	<hr/>
	1,753

## Visits of out-patients:

Old patients . . . . .	3,394	
New patients . . . . .	1,753	
	<hr/>	5,147

*Operations.*

Two hundred thirteen, or 29 per cent of the deliveries were operative.

In Ward S Operating Room 455 operations were performed, with 12 deaths, a mortality of 2.6 per cent.

In Ward H Operating Room 406 operations were performed, with no deaths.

Total number of operations, 861; the rate of mortality from these operations being 1.4 per cent.

The nonoperative adult deaths outside of Ward S numbered 20.

*Infant Mortality.*

Due to the fact that a great number of our cases were referred to us only after having been unsuccessfully treated at their homes, there have been the usual large number of babies lost.

Total number of babies delivered . . . . .	737
Still births . . . . .	42
Infants dying after birth . . . . .	77

As during 1922, prenatal cases were in a routine manner connected with the Department of Public Health, for pre and post natal literature. Beginning November, 1923, prenatal cases were referred to the Community Health Nursing Association for home instruction in prenatal hygiene, etc. The Community Health Nurse not only has instructed in hygiene but has observed the patient's condition and has been helpful in reporting any abnormalities which they have detected through urinalysis, etc. The Community Health Nursing Association has also co-operated in assisting in the treatment of gonorrheal children by visiting them in their homes, and treating as prescribed by us, and teaching the mother how to give intelligent physical care to an infected child.



A monthly report has been sent to the Federal Bureau of the activities in the treatment and control of gonorrhea. There has been an average of twenty-six patients under treatment monthly for active gonorrhea.

#### OPHTHALMIC DEPARTMENT.

During the past year 154 ward patients were treated in the Ophthalmic Department. Three thousand one hundred and sixty-two patients were treated in the Ophthalmic Out-Patient Department. These out-patients made 10,731 visits to the hospital for advice and treatment.

#### AURAL AND LARYNGOLOGICAL DEPARTMENT.

Two thousand five hundred fifty-three patients were treated in the wards by the Aural and Laryngological Department during the past year. In the Aural Out-Patient Department 4,599 patients were treated; these out-patients made 9,641 visits to the hospital.

#### NEUROLOGICAL DEPARTMENT.

During the past year there have been no changes in the staff of this department, and the work has been marked by the hearty co-operation of all the members of the staff. The Out-Patient Department has been much hampered by the lack of room, a condition which will be remedied when the new out-patient building is finally ready for use.

The beds in the hospital have been fully occupied throughout the year and at times the number of cases has been so great that cases in other services in the hospital which needed to be transferred to the Neurological Service could not be transferred. More beds for this service have been needed for a long time. The number of cases treated during the year does not vary a great deal from year to year and depends somewhat upon the character of the cases admitted, whether they can be discharged soon to report further progress to

the Out-Patient Department, or whether they require longer treatment in the hospital.

The variety of the cases admitted is always great, thus making the service one specially suited to teaching and it has been fortunate both for the students and for the hospital that it has been so utilized practically since its start, now fourteen years ago. All those who have studied the question agree that a teaching service improves the quality of the work done in a hospital for a variety of reasons.

#### DEPARTMENT OF PHYSICAL THERAPEUTICS.

Out-patients treated during the year . . . .	2,553
House patients treated during the year . . . .	468
Total new patients . . . . .	<u>3,021</u>
Visits of out-patients made during the year . .	35,078
Visits of house patients made during the year . .	2,134
Total visits . . . . .	<u>37,212</u>
Total number of treatments given . . . . .	<u>92,882</u>

Of the 2,553 out-patients, approximately 300 did not go to other departments first, but were referred directly by members of the staff of the City Hospital.

In common with many other departments, the trained personnel and their apparatus were inadequate to handle the number of cases that have poured in for treatment. At times it has been necessary to refuse cases as the department was overworked. With the securing of new quarters, and the installation of additional equipment, it is hoped that we will be able to take care of the work for the ensuing year.

#### DERMATOLOGICAL DEPARTMENT.

One hundred twenty-three ward patients and 2,364 out-patients have been treated in the Dermatological Department during the year. The out-patients made a total of 11,311 visits for treatment.

## PATHOLOGICAL DEPARTMENT.

The number of autopsies and the percentage of them obtained have both dropped below the record of last year, and much below our best record, as shown in the following table:

YEAR.	Deaths.	Autopsies.	Percentage.
1897.....	1,177	407	34.6
1922.....	1,803	336	18.6
1923.....	1,922	284	14.7

We find it exceedingly difficult to keep up the interest of the clinicians year after year to a point where they will try to obtain permission for an autopsy on every patient that dies.

This coming year, for the first time since before the war, we have a staff of well trained assistants, all of whom are going to stay permanently in pathology.

The pathological work of the laboratory continues very interesting. The most unusual case seen during the year was one of actinomycosis. The diagnosis was made on a bit of tissue from the wall of a subcutaneous abscess sent to the laboratory for examination. Later in the abundant, frothy, mucopurulent secretion coughed up by the patient were found small sulphur colored granules which could be washed out of the sputum by hundreds. Examined under the microscope the granules proved to be colonies of an organism, the actinomyces, growing in a radiate manner and surrounded by typical hyaline clubs, the characteristic feature of this higher bacterium. At autopsy later the lesion was found to have extended from the lungs to the vertebral column, in this respect differing from tuberculosis of the lungs which very rarely does so.

The best case of hemochromatosis studied in the laboratory yet came early in the year. The diagnosis was made during life by cutting out a bit of skin and



demonstrating the presence of iron in it. At autopsy the disease was found complicated by primary liver cell cancer, a not infrequent termination. Tissues from an exactly similar case have just been sent to us, on account of our well-known interest in the subject, from the Rockefeller Institute in New York.

Five more cases of trichiniasis were seen during the year, one from a family in which seven members were affected, with one death. It would seem as though the government might have to institute again the custom of examining microscopically all pork products put on the market.

Although little research work has reached the stage where it is ready for publication, much of it is in progress in the laboratory, among other things a combined histological and bacteriological study of a hundred acutely inflamed appendices, in order to determine, if possible, the casual agents or agent. They are still unknown in spite of the extensive work done on the subject. Another piece of work in progress is a study of the inflammatory lesions of bone, which often resemble true tumors and have caused many unnecessary amputations.

The material received from the United Fruit Company's hospitals in the tropics, although not large in amount, has proved of great interest because it gives us an opportunity to study lesions which we rarely or never see here, acute fatal malaria, amebic dysentery, granuloma venereum, multiple cancers of the exposed parts of the body due to prolonged exposure to sunlight.

#### WORK OF THE PATHOLOGICAL LABORATORY FOR THE YEAR.

Autopsies . . . . .	284
Surgical diagnoses . . . . .	2,568
Clinical bacteriology, positive . . . . .	640
Clinical bacteriology, negative . . . . .	605
Blood cultures, positive . . . . .	172
Blood cultures, negative . . . . .	627
Guinea-pig inoculations . . . . .	183

Bacillus diphtheria, total . . . . .	23,258
Bacillus diphtheria, positive . . . . .	3,549
Sputa typed . . . . .	263
Wassermanns . . . . .	5,989
Number of positives . . . . .	657

#### THORNDIKE MEMORIAL LABORATORY.

After a long delay in the completion of the new Thorndike Memorial Laboratory, the staff began to move into the laboratory at the end of August. It was not until nearly the first of October, however, that gas and electricity were available and that work could be actually begun. The first few weeks were devoted largely to the unpacking of apparatus and the installation of the storeroom. This has now been organized in an extremely satisfactory manner and a complete running inventory of equipment in a card catalogue has been set up. The storeroom is directly under the charge of Doctor Nye with Miss Sullivan as clerk.

The electrocardiograph was moved from the Burnham Building to the Thorndike Laboratory in November and is now connected with the Thorndike ward. It is not yet connected with the Burnham Building but this junction will be made shortly.

The Thorndike ward was opened on November 27 and three patients were admitted. During the year 1923, there were eight admissions to the ward, two of whom were admitted to private rooms. One patient died. Five of these patients were admitted from other wards in the hospital.

The visiting staff in the Thorndike Memorial consists at present of Dr. F. W. Peabody, Dr. J. T. Wearn, Dr. R. N. Nye, Dr. Henry Jackson, Jr., and Dr. G. Lindh Muller. The resident staff consists of Dr. G. O. Broun, Dr. P. B. Davidson, Dr. K. F. Pelkan and Dr. H. L. Blumgart. During the year Dr. E. H. Heath, Jr., served as assistant resident physician from July 1 to December 1.

Dr. J. H. Foster of Changsha, China, and Dr. W. DeLeon, of the Philippines, who hold fellowships from the Rockefeller Foundation, have been working in the laboratory. Dr. D. S. King, Miss Olivia Ames and Miss Sylvia Warren have been working as part time laboratory assistants.

Dr. T. R. Buckman, Doctor Tefft and Doctor Darrow, of the pediatric staff have also been working in the laboratory. Laboratory facilities have been provided for Dr. Clarence Friedman, who is in charge of the pneumonia patients in the hospital, for several house officers and special students.

Miss Myra Conover has been in charge of the ward and there are five secretarial and technical assistants.

It is hardly possible to speak of the work of the laboratory at the present time because it has only been begun. The subjects which are engaging particular attention at the present time are pernicious anemia, chronic nephritis and certain aspects of heart disease.

#### CLINICAL LABORATORY DEPARTMENT.

During the past year, 200 cases of nephritis, 305 cases of diabetes have been carefully studied in the Clinical Laboratory Department, and in addition 540 basal metabolism tests have been done on 450 cases.

In addition to the routine work necessary in the proper study in the above mentioned cases, the department is actively engaged in the study of research problems in connection with these same diseases.

The following figures represent the work of this department for the year:

Number of ward patients treated . . . . .	550
Number of out-patients treated . . . . .	400
Number of visits of out-patients . . . . .	4,050
Number of ward patients counted elsewhere besides being counted in this department . . . . .	550
Number of out-patients counted elsewhere besides being counted in this department . . . . .	400

## X-RAY DEPARTMENT.

Following is the statistical report of the X-ray Department for the year ending January 31, 1924:

*Hospital Proper Ward Patients.*

Routine cases . . . . .	8,578
Gastro-intestinal examinations . . . . .	727
X-ray treatment . . . . .	60
Radium treatments . . . . .	41
	<hr/>
Total ward patients treated . . . . .	9,406

*Hospital Proper Out-Patient Department.*

Routine cases: Patients from this hospital, . . . . .	7,537
Routine cases: Patients from outside physicians . . . . .	1,407
Gastro-intestinal examinations: Patients from this hospital . . . . .	615
Gastro-intestinal examinations: Patients from outside physicians . . . . .	414
X-ray treatments; patients from this hospital . . . . .	81
X-ray treatments; patients from outside physicians . . . . .	25
Radium treatments; patients from this hospital . . . . .	11
Radium treatments; patients from outside physicians . . . . .	6
	<hr/>
Total patients treated . . . . .	10,096
	<hr/>
Total patients examined and treated . . . . .	<u>19,502</u>

*Hospital Proper Visits of Out-Patients.*

Those counted in this department only . . . . .	2,622
Those counted also in another department . . . . .	9,812
	<hr/>
Total visits . . . . .	<u>12,434</u>

*Hospital Proper Films Taken.*

Routine cases . . . . .	31,282
Gastro-intestinal examinations . . . . .	8,285
Number of dental films . . . . .	4,909
	<hr/>
Total films taken . . . . .	<u>44,476</u>

At the Haymarket Square Relief Station, 1,111 patients were treated and 2,273 films were taken.

At the East Boston Relief Station, 580 patients were treated and 660 films were taken.

## DEPARTMENT OF IMMUNOLOGY.

The following figures represent the work accomplished in the Department of Immunology during the year:

Total number of patients treated:

In Out-Patient Department . . . . .	936
In house . . . . .	50
	<hr/>

986

Total number of visits to out-patient clinics . . . . . 6,606

Total number of visits of doctors to house patients . . . . . 190

Curative and diagnostic vaccine inoculation, including bronchial asthma, asthmatic bronchitis, chronic bronchitis, chronic nasopharyngitis, furunculosis, impetigo, gonorrheal arthritis: Number of patients (including house patients) . . . . . 475

Number of visits (including visits of doctors to house patients) . . . . . 3,116

Number of curative and diagnostic inoculations . . . . . 10,252

Protective inoculation:

Total number of visits . . . . . 2,221

Number of individuals (including doctors and nurses) receiving protective inoculation against typhoid and paratyphoid . . . . . 84

Number of protective typhoid and paratyphoid inoculations . . . . . 243

Number of individuals (including nurses) receiving the Schick test . . . . . 189



Number of Schick tests done . . . . .	198
Number of individuals (including nurses) receiving toxin-antitoxin injections . . . . .	95
Number of toxin-antitoxin injections . . . . .	305
Number of individuals receiving protection against smallpox . . . . .	20
Number of vaccinations against smallpox . . . . .	20
Number of individuals receiving protective injections against rabies . . . . .	40
Number of protective anti-rabic injections . . . . .	840
Number of individuals receiving protection against hay fever . . . . .	26
Number of protective inoculations against hay fever . . . . .	826
Number of patients under treatment for neuro- syphilis . . . . .	152
Number of visits of neuro-syphilis patients . . . . .	1,269
Number of intravenous Arsphenamine injections . . . . .	666
Number of intradural Arsphenaminized serum in- jections . . . . .	461
Number of mercurial injections . . . . .	18
Number of lumbar punctures done for diagnosis . . . . .	66

#### The work of the laboratory:

Number of autogenous vaccines prepared . . . . .	530
Number of Swift-Ellis sera prepared . . . . .	470
Number of colloidal gold tests done . . . . .	391
Number of cell counts done . . . . .	112

From 59 bloods from convalescent patients, received from the South Department, the following doses of sera were prepared and bottled:

Convalescent scarlet fever sera . . . . .	55
Convalescent measles sera . . . . .	86
Convalescent parotitis sera . . . . .	5
Convalescent varicella sera . . . . .	10
	<hr/>
	156

These sera were used in treatment of, or protection against, the above-named diseases.



## DENTAL SERVICE.

The following figures represent the work accomplished in the Dental Department during the past year:

Number of ward patients treated . . . . .	196
Number of out-patients treated . . . . .	289
Number of visits of out-patients . . . . .	361
Number of ward patients counted elsewhere beside being counted in this department . . . . .	196
Number of out-patients counted elsewhere beside being counted in this department . . . . .	226
Number of visits of out-patients counted elsewhere beside being counted in this department . . . . .	289
Teeth extracted . . . . .	1,036
Impacted teeth removed . . . . .	16
Local anesthesia . . . . .	394
Nitrous oxide anesthesia . . . . .	59
Ether anesthesia . . . . .	46
Simple fractures treated . . . . .	48
Compound fractures treated . . . . .	15
Ethyl chloride . . . . .	26
Antrums treated . . . . .	13
Treatments . . . . .	89
Alveolar abscesses . . . . .	118
Alveolar abscesses opened on face . . . . .	33
Consultations . . . . .	224
Vincent's angina . . . . .	7
Necrosis of jaw . . . . .	6
Osteomyelitis of jaw . . . . .	6
Prophylaxis . . . . .	1,224

## GASTRO-INTESTINAL SERVICE.

The Gastro-Intestinal Clinic has grown considerably during the past year in spite of cramped quarters. The material is chiefly selected cases and is excellent and very interesting.

In comparison with the General Medical Clinic, much more time has been given to the individual case, more complete histories have been taken, more detailed

physical examination made, more special laboratory work carried out, and more detailed advice given the patient.

A continuous service throughout the year has been arranged in the wards for consultation on gastro-intestinal cases.

It seems desirable to have the Out-Patient Clinic held on more days a week — say two or three, instead of one. This would make it easier to refer patients from other clinics, and also to get the initial complete examination finished more promptly.

The diet sheets are working well; little modification has been needed. Some diet sheets and directions are now in printed form; the laboratory work is well systematized. Many more gastro-intestinal examinations are carried out in the Out-Patient Department and wards than has been the custom, and the routine study has been much improved. We are greatly indebted to the X-Ray Department for its hearty co-operation, in examination of the patient, discussions of films and re-examinations, when needed.

The follow up of cases in the Out-Patient Department has been very valuable. We should be glad to see this work much increased. We have a moderate number of surgical cases after operation and a much larger number of cases discharged from the medical wards. It has been very interesting to watch the gradual improvements of the patients with chronic disease, to find the indications for re-examination, to get confirmations of diagnosis and prognosis, in short to see patients over months and years, in a way which more nearly approaches the conditions of private practice than the ward treatment in an acute hospital.

The out-patient service is still greatly cramped for space and equipment during the construction of the new Out-Patient Building. Space is especially necessary in a Gastro-Intestinal Clinic, as removing stomach contents, biliary drainage, rectal examination, etc., ought to be done in a separate room, if possible, not in the general

examining room. We have had to refuse requests for biliary drainage in the Out-Patient Department in the past year owing to the lack of space. A half dozen men from various states have written for an opportunity to do graduate work in the Gastro-Intestinal Clinic in the past year. We have had to refuse owing to our crowded quarters. We expect that our space will be large enough and well enough equipped to make this possible in the future.

Patients from the clinic have been used for some post-graduate teaching and in spite of cramped quarters, some research has been carried out.

Doctors White and Foley have been studying the results of medical treatment of gastric and duodenal ulcer.

Doctors White and Jankelson have been making comparative study of titration and Hydrogen Ion Concentration methods for determining the acidity of gastric contents.

Among the large number of ward cases (170) there were many of great interest and some rare ones, which will be specially reported.

The following figures represent the work of the clinic for the year:

Number of ward patients treated or seen in consultation . . . . .	170
Number of out-patients treated . . . . .	150
Number of visits of out-patients . . . . .	336

All ward patients and out-patients and out-patient visits are counted elsewhere beside being counted in this department.

#### PEDIATRIC SERVICE.

The following figures tell something of the work of the Pediatric Service during the past year:

Six hundred seventy-one patients were admitted to the wards; of these 11 were also counted on another hospital service.

Thirteen hundred and eighteen patients have been treated in the Out-Patient Department during the year; of these, 29 were also counted in another out-patient clinic. These out-patients made a total of 2,290 visits to the department; 34 of these visits being counted in another clinic.

#### SERVICE FOR TROPICAL DISEASES.

During the past year 28 cases were treated on the service for tropical diseases. The list of diagnoses follows:

Hookworm . . . . .	6
Teniasis . . . . .	6
Clonorchiasis . . . . .	5
Pellagra . . . . .	4
Amoebiasis (carrier) . . . . .	1
Scurvy . . . . .	2
Elephantiasis . . . . .	1
Sprue . . . . .	1
Malaria . . . . .	1
Intestinal indigestion . . . . .	1
<hr/>	
Total . . . . .	<u>28</u>

Two of these cases were sent in for investigation to find out whether an infection of a tropical nature, which might explain obscure conditions, could be found. One of these patients proved to be a carrier of *E. histolytica*. The other showed no evidence of any tropical infection.

There were 6 cases of teniasis produced by the common tapeworm which is not included among the diseases of interest to the service. Subtracting these from the total leaves only 22 cases belonging in the category for which the service exists.

The only case of malaria treated on the service was a private patient who was admitted on the Fourth Medical Service and subsequently transferred. Three other cases of malaria were admitted to the hospital during the year, one of them a double tertian case from Panama,

another an estivo-autumnal case which could not have originated here. A third was diagnosed as "mixed malaria" suggesting that in this case, also, the disease was contracted elsewhere. Two of these were seen by the Head of the Service, but not until after the fever had yielded to quinine, when it was too late to undertake any studies.

There was one case of bacillary dysentery diagnosed in the Out-Patient Department by the Tropical Disease Service, but this case was not admitted to the hospital.

A case of rat-bite fever, admitted from the Out-Patient Department was treated on the Service for Children's Diseases. The diagnosis was proved by the Service for Tropical Diseases.

The total number of patients treated this year, as compared with last year, is somewhat smaller owing to a marked decrease in Chinese immigration at this port.

#### THE CLINICAL INVESTIGATION OF PNEUMOCOCCUS ANTIBODY SOLUTION.

Through the co-operation of the hospital staff, the Influenza Commission conducted a clinical investigation into the merits of a relatively new agent in the treatment of lobar pneumonia. This investigation was carried out simultaneously in five or six other large municipal hospitals scattered throughout the country. Briefly, this new agent is an aqueous solution of the Pneumococcus Antibodies, Types I, II, and III, and is designed to replace sera with their disadvantages due to their high protein content.

A Special Pneumonia Service was not formed. A special Resident Physician and an Assistant were appointed to give the Antibody solution treatments, to collect all necessary laboratory data, and to keep special records for later study by the Influenza Commission. Cases were rotated to the four Medical Services as usual. Every other case admitted was given the Antibody solution treatment, and all cases were given the usual



routine treatment employed by the various services. The solution was injected subcutaneously in all Anti-body treated cases.

The incidence of lobar pneumonia for the winter of 1923-24 was remarkably low. From November 20, 1923, to February 19, 1924, only seventy-one cases of lobar pneumonia were admitted. It is evident, therefore, that any results obtained in such a small series of cases may not be trustworthy. It is probable that the investigation will have to be carried on through another season.

#### BLOOD SERVICE.

The following statistics tell of the work done on the Blood Service during the past year:

Number of house blood cases . . . . .	942	
Number of house consultations . . . . .	712	
	<hr/>	1,654
Number of out-patient consultations . . . . .	734	
Number of groupings . . . . .	400	
	<hr/>	
Special blood examinations . . . . .	2,788	
Donors furnished . . . . .	200	
Number of visits of out-patients . . . . .	1,130	
Out-patients counted also in another out-patient clinic,	534	
Visits of out-patients counted also in another out-patient clinic . . . . .	534	

#### CARDIAC CLINIC.

During the past year 146 new patients and 709 old patients were treated in the Cardiac Clinic. These patients made a total of 855 visits to the clinic. These patients were referred to the clinic by the Medical or Pediatric Out-Patient Department.

#### DEPARTMENT OF SOCIAL WORK.

The work of the department has continued under the direction and oversight of the private committee. As in previous years the primary service rendered has consisted in supplementing and extending the care



which the hospital provides for individual patients so as to include care and oversight, outside the hospital, for certain groups of ward and out-patients. In the interests of these patients efforts have been made to make use of the various resources, both medical and social, with which this community is so richly endowed. In addition we have helped in various phases of the work of the out-patient clinics, and in follow up for certain groups of both ward and out patients.

The following gives some indication of the different types of service which were rendered during the year:

Ensured continued medical and social oversight in home and Out-Patient Department through co-operation with relatives and friends, and home visitings.

Referred to outside social agencies for oversight, material aid, employment, child welfare.

Provided after care for tubercular patients through specialized agencies and institutions.

Obtained special medical care outside the Boston City Hospital, through dental and evening clinics, sight-saving classes, etc.

Secured nursing care in the home through district and school nurses.

Provided loans or gifts to purchase medical apparatus, artificial teeth, extra diet in the homes for patients unable to pay, and for which the hospital does not make provision.

Referred patients to public relief agencies for Mother's Aid, Soldiers' Relief, child guardianship.

Secured legal advice and oversight through Legal Aid Society and probation departments.

This service was rendered to a monthly average of 633 patients. Of these 458 were social record cases, while 175 were given some service which was not socially recorded.

In connection with this service to the patients 4,694 visits were paid outside the hospital to homes, agencies and institutions.

Of the 2,244 new and recurrent cases dealt with during

the year, and for whom some form of social record was made, 1,419 were referred from the wards, 538 from the Out-Patient Department, while 287 were brought to our attention through inquiry from outside sources.

The monthly average of the paid staff has been  $21\frac{3}{12}$ . Of these the case workers, dealing directly with the patients averaged 15. During the last five months of the year the proportion of case workers in the house was 10, and 6 in the Out-Patient Department. Conditions in the latter have, of course, been crowded and uncomfortable for all concerned, and while our workers have done their best under existing circumstances, it did not seem worth while to try and plan for any extension of that part of the work at present, but instead to place most emphasis on our work with ward patients.

The one exception has been in the Maternity and Gynecological Out-Patient Department. With the great increase in the number of maternity patients, sometimes 60 new patients a month, we have for some time been anxious to offer to undertake systematic follow-up for all prenatal cases instead of the selected few which might happen to be referred by the physicians. The great majority of these maternity patients have poor, inadequate home surroundings, and are ignorant of the hygiene which their condition entails. Statistics have shown the benefits to be derived from careful prenatal instruction. Doctor Mason and the other visiting surgeons expressed themselves as anxious to have this systematic follow-up work extended to all their maternity patients. Although the greater part of the home visiting in these cases was to be done by the district nurses, such systematic referring and following of large numbers of patients, in some cases over periods of weeks and months, involves a lot of detail work right in the clinic. To assist our case worker the committee authorized the employment of a part-time privately paid, clinical assistant. She began work in July.

Through our work in connection with syphilis and

gonorrhea we have continued to receive the small state subsidy. This work involves sending detailed monthly reports to the State Board of Health.

About October, with Doctor Mason's approval, we resumed our systematic referring of all mothers and infants discharged from Ward S to the Baby Hygiene Division of the Community Health Association for home visiting. Since resuming this work we have referred a monthly average of about 45 to 50 babies, with their mothers.

In September, we increased the number of case workers dealing with house adults to four, three having been our maximum for this group. We did this in order to take advantage of an opportunity for a demonstration of our work in the social after care of ward patients which seemed offered to us through Doctor Peabody's service on the Fourth Medical. As a preliminary in October we began a little survey on 500 consecutive admissions. As we found there were considerably over 100 admissions a month to the Fourth Medical, our little study was still in process at the close of the fiscal year. We hope to publish our findings later.

On April 1, \$1,000 became available towards the salary of a worker in the South Department through the hospital budget. Arrangements could not be made to begin the work until October 1. As we had no knowledge of the South Department, and as little social work has been done so far in connection with contagious hospitals, with Doctor Dowling's and Doctor Place's permission, we began our work with a little study of 1,000 medical records. This covered a previous period of six months.

A tabulation of certain findings and deductions has proved useful in giving us some basis from which to plan our work. In addition to the social case work we hope that we may some day be able to help to organize some form of library, teaching, and recreational work for the hundreds of terribly isolated children convalescing over long periods.

In the main hospital the library and recreational work for ward children has continued under the serious handicap of lack of any suitable office quarters.

Grade teaching for ward children has continued. The teacher's report to the Public School Department for the year ending October, 1923, is of interest (School Document No. 20): "Wherever in the ward there is a child to be taught there the teacher goes . . . a card is made out and left with the doctor for his signature and information regarding the approximate time the patient is to remain . . . the doctor's signature is really permission to teach . . . Grades taught are from kindergarten to Grade VIII. The monthly average of pupils enrolled was 45; average taught 33."

#### EXPENDITURES.

The following shows the money contributed for the support of the work during the year through the private committee, from the hospital budget, and from other sources:

##### *Through the Private Committee.*

For salaries . . . . .	\$16,249 87	
For car fares . . . . .	211 36	
For postage, office supplies, etc. . . . .	81 07	
For publicity . . . . .	486 83	
For supplies for children's library . . . . .	100 00	
For recreational work for ward children . . . . .	10 00	
	<hr/>	\$17,139 13

To provide special relief, chiefly outside the hospital, for certain patients, in the form of loans or gifts for surgical apparatus, convalescent care, etc.

From the Committee of the Permanent Charity Fund . . . . .	\$638 25	
From Mrs. E. H. Curtis . . . . .	25 00	
From Mrs. F. T. Blaney . . . . .	25 00	
From Miss Cornelia Rodman . . . . .	100 00	
	<hr/>	

*Carried forward* . . . . . \$788 25 \$17,139 13

<i>Brought forward</i> . . . . .	\$788 25	\$17,139 13
Anonymous Christmas gift . . . . .	100 00	
From newspaper appeal for toys for South Department . . . . .	59 00	
Money raised by case workers . . . . .	676 97	
	<hr/>	1,624 22
		<hr/>
		<u>\$18,763 35</u>

In addition to the above \$18,763.35 there was expended from the hospital budget:

For salaries . . . . .	\$11,693 79	
For car fare . . . . .	458 00	
For telephone rentals . . . . .	426 83	
For telephone, telegraph and messen- ger service . . . . .	93 38	
For printing, stationery and postage . . . . .	436 36	
For furniture and furnishings . . . . .	26 35	
	<hr/>	<u>\$13,134 71</u>

#### COMMITTEE.

Mrs. George H. Monks, Chair- man.	Mrs. Thomas Devlin.
Mrs. Reid Hunt, Secretary.	Mrs. Henry Ehrlich.
Mr. William C. Endicott, Treasurer.	Mrs. E. D. Pickman.
Miss Gertrude L. Farmer, Di- rector.	Mrs. I. A. Ratschesky.
Mrs. Henry Andrews.	Mrs. William H. Robey.
Mrs. E. H. Bradford.	Mrs. Milton Rosenau.
Mrs. C. A. Coolidge.	Miss Anna Thorndike.
	Mrs. George Tobey.
	Mrs. E. B. Young.

#### OUT-PATIENT DEPARTMENT.

The Out-Patient Department statistics may be found on pages 69, 71 and 73 of the Superintendent's report.

The number of patients treated in the Out-Patient Department during the past year has been 38,690. The number of visits was 193,075.

#### SOUTH DEPARTMENT.

During the twenty-nine years that the department has been in operation, 71,015 patients have been received, nearly all ill with an infectious disease.



## HAYMARKET SQUARE RELIEF STATION.

This Relief Station has been in commission twenty-two years. In these twenty-two years, 703,364 patients have been treated. The number of patients treated during the first year was 20,150 and during the present year, 29,567. These patients received 30,742 days' treatment.

## EAST BOSTON RELIEF STATION.

In the fifteen years that the East Boston Relief Station has been in operation, 188,242 patients have been treated. For the year ending January 31, 1924, 10,928 patients were treated. These patients received 25,359 days' treatment.

## CONVALESCENT HOME.

During the thirty-three years that the Convalescent Home has been in operation, 11,840 patients have been benefited.

The number of patients treated during the past year was 318, who received 5,720 days' treatment.

## WEST DEPARTMENT.

The West Department is leased to the United States Government for five years beginning July 1, 1921, upon a rental based upon the tax valuation. The income from the same this year has been \$38,106.25.

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## OBITUARY.

Dr. George Brune Shattuck, Senior Physician, passed away in March. The Senior Staff expressed their sense of appreciation and loss in the following words:

For thirty-one years, from 1878 to 1909, Dr. George B. Shattuck was Visiting Physician at the Boston City Hospital, and from that time until his death on March 12, 1923, he was Senior Physician. In 1868 he served a term as House Officer. For all these years the hospital had the benefit of his wise counsel, professional skill and kindly presence. In his pro-



professional work he was thoughtful and deliberate. He had a fund of common sense, which was of especial value both to his patients and his colleagues. Many of his opinions were expressed with a kindly humor, which has left them indelibly impressed upon the minds of his associates and of those who were fortunate enough to serve under him as house officers. Many a bubble of ignorance or self-esteem was pricked by the rapier of his wit. To say, as is usually done, that in his death the staff of the hospital have suffered an irreparable loss, means little to those who did not know the man. Only those who were long associated with him in professional and personal relations can realize what it really does mean.

Of his individual contributions, the various papers which he wrote on typhoid fever are especially notable. He was editor for many years of the *Boston Medical and Surgical Journal*, and conducted it so well that it became one of the best medical journals in the country. As an editorial writer, his work was distinguished for both wisdom and felicity of expression. As president of the Massachusetts Medical Society, he brought honor and credit to the hospital. His gentle, dignified presence, his loyalty to his friends, his unflinching kindness to those of whom he approved among the younger members of the profession, and the practical assistance he gave, many of them will never forget.

"Take him for all and all he was a man, — we shall not look upon his like again." The staff of the hospital thus endeavor inadequately to express the feeling of personal loss, their pride in his career during the long period of his service, and their appreciation of his great contributions to the reputation and standing of the hospital.

#### CHANGES IN MEDICAL AND SURGICAL STAFF.

The following members of the Visiting Staff resigned their positions: Oscar Schloss, M. D., Visiting Pediatrician; LeRoy A. Luce, M. D., First Assistant Visiting Physician for Diseases of the Nervous System; William D. Reid, M. D., Second Assistant Visiting Physician; Hiram H. Amiral, M. D., Second Assistant Visiting Physician (Pediatric Service); Robert B. Hunt, M. D., Second Assistant Visiting Physician (Pediatric Service);

John E. Butler, M. D., Anesthetist; Samuel H. Wilkins, M. D., Assistant to the Ophthalmic Surgeons; Forrest B. Ames, M. D., Assistant Physician for X-Ray Service.

The following promotions were made: Joshua C. Hubbard, M. D., from the position of Visiting Surgeon to that of Surgeon-in-Chief; Robert M. Green, M. D., from the position of First Assistant Visiting Surgeon to that of Visiting Surgeon (Gynecological Service); Halsey B. Loder, M. D., from the position of First Assistant Visiting Surgeon to that of Visiting Surgeon; Irving J. Walker, M. D., from the position of First Assistant Visiting Surgeon to that of Visiting Surgeon; Francis F. Henderson, M. D., from the position of Out-Patient Surgeon to that of First Assistant Visiting Surgeon; Herbert H. Howard, M. D., from the position of Out-Patient Surgeon to that of First Assistant Visiting Surgeon; Joseph P. Cohen, M. D., from the position of Assistant to Out-Patient Surgeons to that of First Assistant Visiting Surgeon (Gynecological Service); Joseph H. Shortell, M. D., from the position of Assistant to Out-Patient Surgeons to that of Out-Patient Surgeon; Augustus Riley, M. D., from the position of Assistant to Out-Patient Surgeons to that of Out-Patient Surgeon.

To fill the vacancy caused by the death of Dr. Edward H. Nichols, Dr. Frank H. Lahey, Professor of Clinical Surgery at Harvard Medical School, was appointed head of the Fifth Surgical Service. Dr. Nathaniel R. Mason was promoted to the position of Surgeon-in-Chief (Gynecological Service) in place of Dr. Ernest B. Young, who passed away in January. Dr. Harry P. Cahill was appointed Visiting Surgeon for Diseases of Ear and Throat.

Other appointments were made as follows: John F. Fennessey, M. D., Second Assistant Visiting Physician; Eli Friedman, M. D., Second Assistant Visiting Physician; Frederick J. Lynch, M. D., Assistant to Out-Patient Surgeons (Gynecological Service); Paul Gustafson, M. D., Assistant to Out-Patient Surgeons; Thomas

W. Wickham, M. D., Assistant to Out-Patient Surgeons; Max Ritvo, M. D., Assistant Physician for X-Ray Service; Edmund F. Walsh, M. D., Assistant Physician for Immunology; LeRoy A. Luce, M. D., Assistant in Department of Immunology.

The following temporary appointments were made for the period of six months: To the position of Assistant to the Visiting Physicians: Aubrey C. Benjamin, M. D., beginning March 23, 1923; Cecil K. Drinker, M. D., beginning May 1, 1923; Hyman A. Novack, M. D., beginning May 1, 1923; I. R. Jankelson, M. D., beginning June 8, 1923, also beginning December 8, 1923; Henry Baker, M. D., beginning November 23, 1923; F. R. Brown, M. D., beginning November 23, 1923; Hyman A. Novack, M. D., was appointed Assistant to the Visiting Physicians for three months beginning November 1, 1923.

To the position of Assistant to Out-Patient Surgeons: John J. Lucy, M. D., beginning March 16, 1923; David D. Greene, M. D., beginning March 23, 1923, also October 5, 1923; Joseph H. Burnett, M. D., beginning May 8, 1923; E. Everett O'Neil, M. D., beginning May 23, 1923; Gordon D. Atkinson, M. D., beginning June 8, also December 8, 1923; Paul Gustafson, M. D., beginning June 1, 1923; George W. Papen, M. D., beginning September 1, 1923; William R. Supple, M. D., beginning August 17, 1923; Samuel Nadel, M. D., (Gynecological Service) beginning September 7, 1923; Richard I. Smith, M. D., beginning October 5, 1923; Benedict F. Boland, M. D., beginning November 2, 1923; W. A. White, M. D., beginning December 21, 1923; Edward M. Hodgkins, M. D., beginning January 18, 1924; Edward B. Ormsby, M. D., beginning January 18, 1924; Joseph H. Burnett, M. D., beginning January 25, 1924.

To the position of Assistant to the Surgeons for Diseases of Ear and Throat: Charles W. DeWolf, beginning February 1, 1923.

To the position of Assistant to the Physicians for

Diseases of the Nervous System: Daniel J. Fennelly, M. D., beginning May 8, 1923; Maurice W. O'Connell, M. D., beginning October 1, 1923.

#### PUBLICATIONS OF THE MEDICAL AND SURGICAL STAFF.

Following is a list of the scientific papers published by members of the Hospital Staff during the year:

"Report of Case of Gangrene of Lung," by Dr. Horace Binney. *Boston Medical and Surgical Journal*, 1923, Vol. 188, page 844.

"The Early History of the Rutland Sanatorium," by Dr. Vincent Y. Bowditch. *Boston Medical and Surgical Journal*, Vol. 189, No. 22, pages 853-857, November 29, 1923; also printed in *Journal of the Out-Door Life*, January 1, 1924.

"Fracture Table and Fluoroscopy in Difficult Fractures," by Dr. Howard M. Clute. *Boston Medical and Surgical Journal*, April 26, 1923.

"A Simple Blood Transfusion," by Dr. Howard M. Clute. *Boston Medical and Surgical Journal*, June 14, 1923.

"Non-Union in Shaft Fractures," by Dr. Frederic J. Cotton. *Boston Medical and Surgical Journal*, November 29, 1923.

"Relations Between Family Agencies and Hospital Social Workers," by Anne L. Estabrook. *Hospital Social Service*, 1922, Vol. VI, page 423.

"A Clinical Study of Trichinosis, with case reports," by Dr. Joseph Garland. *Boston Medical and Surgical Journal*, May 17, 1923.

"Milk and the Public Health," Series of Three, by Dr. Joseph Garland. *Boston Medical and Surgical Journal*. 1. Bovine Tuberculosis, October 4, 1923. 2. Other Milk-Borne Infections, October 11, 1923. 3. Past, Present and Future, October 18, 1923.

"The Diagnosis and Treatment of Juvenile Tuberculosis," by Dr. Joseph Garland. *Monthly Bulletin*, Boston Health Department, October, 1923.

"Milk Borne Diseases and Their Prevention," by Dr. Joseph Garland. *Boston Medical and Surgical Journal*, December 13, 1923.

"The Prendergast Preventorium," by Drs. Joseph Garland and John B. Hawes. *Boston Medical and Surgical Journal*, November 29, 1923.



"A Case of Meningitis Due to Micrococcus Catarrhalis," by Dr. Joseph Garland. *American Journal Diseases of Children*, December, 1923.

"Ovarian Pregnancy," by Drs. Frederick L. Good and Thomas K. Richards. *Surgery, Gynecology and Obstetrics*, February, 1923.

"Early History of Medical Journalism in New England," by Dr. Robert M. Green. *Boston Medical and Surgical Journal*, May 17, 1923.

"Metastatic Choroiditis," by Dr. Allen Greenwood. *American Ophthalmological Society*, Colorado Springs, Colorado, June 19, 1923.

Chapter on "Crystalline Lens," by Dr. Allen Greenwood for the *Ophthalmic Year Book*, 1923.

"Thrombosis of the Central Retinal Vein," by Dr. Allen Greenwood. *Section on Ophthalmology, American Medical Association*, June 26, 1923.

"Thyroidism Complicated by Heart Failure," by Dr. Burton E. Hamilton. *Journal of the American Medical Association*, June 16, 1923.

"Notes on the Problem of Heart Diseases in Pregnancy," by Dr. Burton E. Hamilton. *Boston Medical and Surgical Journal*, June 21, 1923.

"Diabetes Mellitus," by Dr. Albert A. Horner. *Journal of the John A. Andrew Clinical Society*, April, June, 1923.

"Studies in Nuclein Metabolism Adenine Nucleotide in Human Blood," by Dr. Henry Jackson, Jr. *Journal Biological Chemistry*, Vol. LVII., August, 1923, page 121.

"A Case of Ruptured Aneurysm," by Dr. Henry Jackson, Jr. *Medical Clinics of North America*, November, 1923.

"Insulin in the Treatment of Diabetes by the General Practitioner," by Dr. Elliott P. Joslin. *Transactions of the Connecticut State Medical Society*.

"The Routine Treatment of Diabetes with Insulin," by Dr. Elliott P. Joslin. Reprinted from the *Journal of the American Medical Association*, June 2, 1923, Vol. 80, pages 1581 and 1583.

"Insulin, Diabetes and the General Practitioner," by Dr. Elliott P. Joslin. Reprinted from the *Boston Medical and Surgical Journal*, Vol. 189, No. 8, page 289, August 23, 1923.

"The Treatment of Diabetes with and without Insulin," by Dr. Elliott P. Joslin. *New York State Journal of Medicine*, Vol. 23, No. 10, October, 1923.



"Diabetic Metabolism with High and Low Diets," by Dr. Elliott P. Joslin. Carnegie Institution of Washington, Washington, 1923.

The third edition of the "Treatment of Diabetes Mellitus," by Dr. Elliott P. Joslin. Published by Messrs. Lea and Febiger, Philadelphia, 1923.

"A Technique of Thyroidectomy," by Dr. Frank H. Lahey. *Surgery, Gynecology and Obstetrics*, June 23, 1923.

"Implantation of Biliary Fistula into Duodenum," by Dr. Frank H. Lahey. *Journal of the American Medical Association*, March 31, 1923.

"Oesophageal Diverticulum," by Dr. Frank H. Lahey. *Boston Medical and Surgical Journal*, March 15, 1923.

"A Tendon Suture which Permits Immediate Motion," by Dr. Frank H. Lahey. *Boston Medical and Surgical Journal*, May 31, 1923.

"Lingual Goiter," by Dr. Frank H. Lahey. *Surgery, Gynecology and Obstetrics*, March, 1923.

"Intracervical Enuclation of the Cervix," by Dr. Frank H. Lahey. *Annals of Surgery*, July, 1923.

"Transfusion in Purpura Hemorrhagica," by Dr. Ralph C. Larrabee. *Journal American Medical Association* of March 24, 1923, Vol. 80, pages 838 and 840, and a letter on the same subject was published in the same journal October 27, 1923, Vol. 81, page 1461.

"The Treatment of Type I., Pneumococcus Lobar Pneumonia with Specific Serum," by Dr. Edwin A. Locke. *Journal American Medical Association*, Vol. 80, pages 1507-1511, May 26, 1923.

"Osteomalacia (Juvenile Form)," by Dr. Edwin A. Locke. *North American Clinics*, 1923, Vol. VII., 3, page 687.

"A Roman Muleteer," by Dr. F. B. Lund. *Harvard Graduates' Magazine*, September, 1923.

"Hemochromatosis," by Dr. F. B. Mallory. *Journal Medical Research*, 1923, Vol. XLIV., 102.

"Analysis of Four Hundred Cases of Extra-Uterine Pregnancy," by Dr. Nathaniel R. Mason, F. A. C. S., Boston and Ralph W. Storrs, M. D., Hartford, Conn. *Boston Medical and Surgical Journal*, Vol. 189, No. 23, pages 914-919, December 6, 1923.

"Fish-Egg Mucocoele of the Appendix; A Cystic Type of Chronic Catarrhal Appendicitis, With Report of a Case," by

Dr. W. R. Morrison. *Boston Medical and Surgical Journal*, Vol. 188, No. 15, pages 532-537, April 12, 1923.

"A Note on Adrenaline Therapy," by Dr. Dwight O'Hara and Dr. A. Worcester. *Boston Medical and Surgical Journal*, Vol. 188, page 58, January 18, 1923.

"Some Problems in the Diagnosis of Nephritis," by Dr. W. Richard Ohler. *Boston Medical and Surgical Journal*, page 43, January 10, 1924.

"So-called Gas in the Stomach," by Dr. Francis W. Palfrey. *Boston Medical and Surgical Journal*, Vol. 188, No. 21, page 800, May 24, 1923.

"The Function of a Municipal Hospital," by Dr. Francis W. Peabody. *Boston Medical and Surgical Journal*, 1923, Vol. CLXXXIX, 125.

"The Clinical Importance of the Vital Capacity of the Lungs," by Dr. Francis W. Peabody. *Northwest Medicine*, 1923, Vol. XXII., 307.

"Notes on the Treatment of Heart Disease," by Dr. William H. Robey. *Boston Medical and Surgical Journal*, July 19, 1923.

"What Can We Do to Prevent Heart Disease?" by Dr. William H. Robey. *Health Journal*, Massachusetts Tuberculosis League, September, 1923.

"History and Observation in Cardiac Disease," by Dr. William H. Robey. *Boston Medical and Surgical Journal*, September 20, 1923.

"Prevention of Heart Disease," by Dr. William H. Robey. *The Commonwealth*, Massachusetts Department of Public Health, November, 1923.

"Two Cases of Carcinoma of the Abdomen in Young Men," by Dr. William H. Robey. *Medical Clinics of North America*, November, 1923.

"Hospital Administration under the Eighteenth Amendment," by Dr. George G. Sears. *Boston Medical and Surgical Journal*, September 20, 1923.

"Pellagra in Massachusetts," by Dr. George C. Shattuck. *Boston Medical and Surgical Journal*, Vol. 188, No. 4, page 110, January 25, 1923.

"The Harvard School of Tropical Medicine," by Dr. George C. Shattuck. *Harvard Graduates' Magazine*, June, 1923.

"Granuloma Inguinale in Boston," by Dr. George C. Shattuck. *Boston Medical and Surgical Journal*, Vol. 188, No. 15, April 12, 1923.

"Factors apparently influencing the development of Pellagra in Massachusetts," by Dr. George C. Shattuck. *Boston Medical and Surgical Journal*, Vol. 188, No. 23, June 7, 1923.

"A Case of Filariasis apparently contracted in Boston," by Dr. George C. Shattuck. *Boston Medical and Surgical Journal*, Vol. 189, No. 4, July 26, 1923.

"Clonorchiasis in Boston," by Dr. George C. Shattuck. *Boston Medical and Surgical Journal*, Vol. 189, No. 5, August 2, 1923.

"Results of Treatment for Clonorchiasis," Preliminary Report, by Dr. George C. Shattuck. *The American Journal of Tropical Medicine*, Vol. III, No. 6, November, 1923.

"What Animal Experimentation has done for Exotic and Tropical Medicine," by Dr. Richard P. Strong. *Boston Medical and Surgical Journal*, Vol. 188, No. 2, page 33, January 11, 1923.

"Research in Some Aspects of Disease Associated with the Fields of Zoology, Entomology, and Parasitology," by Dr. Richard P. Strong. *Science*, May 4, 1923, LVII, page 507.

"The Clinical Importance of the Chronic Changes in the Appendix which are Discovered by Roentgen Ray," by Dr. Franklin W. White. *Boston Medical and Surgical Journal*, 1923, Vol. 188, page 587.

"Modern Diagnosis of Diseases of the Gall Bladder," by Dr. Franklin W. White. *Medical Clinics of North America*, 1923, Vol. 7, page 909.

"Dystocia of the Shoulders in Head Presentations," by Dr. John T. Williams. *Boston Medical and Surgical Journal*, 1923, CLXXXIX, 465.

#### SCIENTIFIC ARTICLES READ AND ADDRESSES DELIVERED BY MEMBERS OF THE MEDICAL AND SURGICAL STAFF.

Following is a list of the scientific articles read and addresses delivered by members of the Hospital Staff during the year:

"A Case of Tumor of Aberrant Thyroid," read by Dr. Horace Binney at a meeting of the New England Surgical Society, Boston, October, 1923.

"The Early History of the Rutland Sanatorium," an address given by Dr. Vincent Y. Bowditch, at the 25th anniversary meeting of the opening of the Rutland, Massachusetts, State Sanatorium, September 13, 1923.

"The Classification and Treatment of Thyroid Disease," read by Dr. Howard M. Clute before the Kennebec County Medical Society at Waterville, Me., March 27, 1923.

"Shoulder and Hip Fractures," an address given by Dr. Frederic J. Cotton before the Brockton Medical Society, January 11, 1923.

"Physiotherapy in Peace and War," an address given by Dr. Frederic J. Cotton before the New England Physiotherapy Society, January 23, 1923.

"Osteomyelitis," an address given by Dr. Frederic J. Cotton before the Waltham Medical Society, February 1, 1923.

An address given by Dr. Frederic J. Cotton before the Somerville Medical Society, January 29, 1923.

"Standardization of Fractures," an address given by Dr. Frederic J. Cotton before the American College of Surgeons, Worcester, May 15, 1923; before the Maine Medical Society, June 6, 1923, and on June 12 before the Massachusetts Medical Society, Pittsfield.

"Operative Treatment of Fractures," an address given by Dr. Frederic J. Cotton before the Massachusetts Medical Society, June 12, 1923.

"Non Union in Shaft Fractures," an address given by Dr. Frederic J. Cotton before the New England Surgical Society, October 17, 1923.

"Operative Treatment of Fractures," "Shoulder and Hip Fractures," and "Clinic: Bone Lesions," a series of addresses given by Dr. Frederic J. Cotton before the Tri-State Medical Society at Des Moines, Iowa, October 29, 1923.

"Colles' Fracture," an address given by Dr. Frederic J. Cotton before the Cleveland, Ohio, Medical Society, November 15, 1923.

"Osteomyelitis," an address given by Dr. Frederic J. Cotton before the Portland, Me., Medical Society, December 18, 1923.

"Relations Between Family Agencies and Hospital Social Workers," read by Miss Anne L. Estabrook at the Joint Session of the American Association for Organizing Family Social Work and American Association of Hospital Social Workers, Providence, R. I., 1922.



"Diagnosis of Infantile Paralysis," read by Dr. Eli Friedman before the Fall River Medical Society, Fall River, Mass., January, 1923.

"Birth Injuries," read by Dr. Eli Friedman to the New Bedford Society, September, 1923.

"Intravenous Use of Antitoxin," read by Dr. Eli Friedman to the Greater Boston Medical Society, November, 1923.

"Milk-Borne Diseases and Their Prevention," read by Dr. Joseph Garland before a meeting of the Bristol North, Bristol South, Plymouth and Barnstable Medical Societies, November 8, 1923.

"A Dentist's Responsibility to the Expectant Mother," read by Dr. Frederick L. Good before the Guild of St. Apolonio (Guild of Dentists), December 2, 1923.

"Early History of Medical Journalism in New England," read by Dr. Robert M. Green before the Boston Medical History Club.

"Metastatic Choroiditis," read by Dr. Allen Greenwood before the American Ophthalmological Society, Colorado Springs, Col., June 19, 1923.

"Thrombosis of the Central Retinal Vein," read by Dr. Allen Greenwood before the Section on Ophthalmology, American Medical Association, San Francisco, Cal., June 26, 1923.

"Heart Diseases Complicating Pregnancy," read by Dr. Burton E. Hamilton before the Boston Association of Cardiac Clinics at the Boston Lying-in Hospital, January 18, 1923; before the Cambridge Medical Improvement Society, February 26, 1923, and before the Fall River Medical Society, February 28, 1923.

"Diseases of the Heart," an address given by Dr. Burton E. Hamilton before the Boston School of Occupational Therapy on March 9, 1923, and also before the Waltham Training School for Nurses, May 17, 1923.

"Differential Diagnosis of Hyperthyroidism and the Effect of Thyroidism on the Heart," an address given by Dr. Burton E. Hamilton before the Kennebec County Medical Society, Waterville, Me., March 27, 1923, and also before the Washington County Medical Society, Barre, Vt., April 9, 1923.

"Sudden Alarming Unexpected Symptoms Referable to the Heart," an address given by Dr. Burton E. Hamilton before the Plymouth County Medical Society, Brockton, Mass. December 13, 1923.



"Diabetes Mellitus," "Heart Disease," "Acute Respiratory Infections," and "Nephritis," addresses given by Dr. Albert A. Hornor before the John A. Andrew Clinical Society, Tuskegee Institute, Tuskegee, Ala., April, 1923.

"Insulin in the Treatment of Diabetes by the General Practitioner," read by Dr. Elliott P. Joslin at the 131st Annual Convention of the Connecticut State Medical Society, New Haven, May 23 and 24, 1923.

"Insulin, Diabetes and the General Practitioner," read by Dr. Elliott P. Joslin before the annual meeting of the Massachusetts Medical Society Section of Medicine at Pittsfield, Mass., June 12, 1923.

"The Treatment of Diabetes With and Without Insulin," read by Dr. Elliott P. Joslin at the annual meeting of the Medical Society of the State of New York at New York City, May 22, 1923.

"Simple Methods for the Safe Treatment of Diabetes," an address given by Dr. Elliott P. Joslin before the Suffolk County Medical Society at the Boston Medical Library, December 19, 1923.

"The Treatment of Diabetes with Diet and Insulin," an address given by Dr. Elliott P. Joslin before the Division of Public Health Education, Congress Theater, Albany, N. Y.

"The Treatment of Diabetes with Diet and Insulin," an address given by Dr. Elliott P. Joslin before the Vermont State Medical Society, Bennington, Vt., October 11, 1923.

"The Treatment of Diabetes Mellitus," an address given by Dr. Elliott P. Joslin before the Tri-State District Medical Association, Inter-State Assembly, October 30, 1923.

"The Treatment of Diabetes with Diet and Insulin," an address given by Dr. Elliott P. Joslin before the Medical Society of Virginia, Roanoke, Va., October 18, 1923, and before the Ohio State Medical Association, Dayton, Ohio, October 3, 1923.

"Surgical Shock," read by Dr. A. R. Kimpton before the Portsmouth Medical Society at Portsmouth, May 1, 1923.

"Transfusion," read by Dr. A. R. Kimpton before the Cumberland County Medical Society at Portland, Me., May 31, 1923.

"Hydatidiform Mole," read by Dr. A. R. Kimpton before the Lawrence Medical Society at Lawrence, October, 1923.

"Gastric and Duodenal Ulcer," read by Dr. A. R. Kimpton before the Waltham Medical Society at Waltham, December 6, 1923.

"Thyroidism," an address given by Dr. Frank H. Lahey before the Thyroid Clinic for Staff Brooklyn and Long Island Physicians at Brooklyn Hospital, New York, January 24, 1923.

"Thyroid Diseases and Their Treatment," an address given by Dr. Frank H. Lahey before the Associated Physicians of Montclair, N. J., and vicinity, February 26, 1923, read also before the Norfolk District Medical Association, February 27, 1923.

"Experience with a Thyroid Clinic," an address given by Dr. Frank H. Lahey before the Hartford Medical Society, Hartford Academy of Medicine, March 19, 1923.

"Thyroid Diseases and Their Treatment," an address given by Dr. Frank H. Lahey at Barre, Vt., April 9, 1923.

"Treatment and Management of Goiter," an address given by Dr. Frank H. Lahey before the South Boston Medical Society at the Harvard Club, May 8, 1923.

"The Relation of Surgery to the Medical Treatment of Gastric and Duodenal Ulcer," an address given by Dr. Frank H. Lahey before the Lawrence Medical Club, Lawrence General Hospital, November 26, 1923.

"Causes and Treatment of So-called Uncontrollable Hemorrhage," read by Dr. Ralph C. Larrabee before the Harvard Odontological Society, April 12, 1923, and also before the local Medical Society in Malden, April 14, 1923.

"Splenectomy," read by Dr. Ralph C. Larrabee before the Tri-State Medical Society at the Boston City Hospital, April 18, 1923.

Doctor Mayo's paper on "Splenomegalias," discussed by Dr. Ralph C. Larrabee at the Boston Medical Library, November 14, 1923.

"The Treatment of Type I Pneumococcus Lobar Pneumonia with Specific Serum," read by Dr. Edwin A. Locke before the New York Academy of Medicine on February 20, 1923.

"The Serum Treatment of Pneumonia," read by Dr. Edwin A. Locke before the Philadelphia Medical Society at Philadelphia Academy of Medicine, November 14, 1923. (To be published soon.)

"Diagnosis in Acute Abdominal Disease," an address by Dr. F. B. Lund before the Kennebec County Medical Association, May 22, 1923.

"Acute and Chronic Disease of the Pancreas," an address given by Dr. F. B. Lund before the Worcester Medical Society, December 12, 1923.

"Hospital Standardization," read by Dr. F. B. Lund at a meeting of Clinical Congress of American College of Surgeons, May 15, 1923.

"Acute Abdominal Diseases," an address given by Dr. F. B. Lund before the North Adams Medical Society, January 26, 1923.

"Medical Allusions from Aulos Gellius," an address given by Dr. F. B. Lund before the Medical History Club, February 19, 1923.

"The First Clinical Report of the Oral Surgery Service of the Boston City Hospital," read by Dr. Stephen P. Mallett at the Boston City Hospital Staff Clinical Meeting in the Amphitheater, March 23, 1923.

"Hemochromatosis," an abstract of demonstration by Dr. F. B. Mallory before the meeting of the American Association of Pathologists and Bacteriologists, held in Boston City Hospital, March 30 and 31, 1923.

"Discussion of the Pathogenesis of Hemochromatosis," read by Dr. F. B. Mallory before the Worcester District Medical Society, January 9, 1924.

"Inflammatory Lesions of Bone," read by Dr. F. B. Mallory before the Boston Orthopedic Club, January 28, 1924.

"Present Day Problems in Obstetrics and Gynecology," an address given by Dr. Nathaniel R. Mason before the Quincy Medical Society, May 25, 1923.

"Nephritis," an address given by Dr. W. Richard Ohler at the Naval Hospital, Chelsea, March, 1923, and also before Extension Course, Worcester City Hospital, December, 1923.

"Clinical Application of Kidney Function Tests," an address given by Dr. W. Richard Ohler at the Brockton City Hospital in October, 1923, and also at a Clinic Meeting at the Boston City Hospital, April, 1923.

"The Diagnosis and Treatment of Cardiac Neuroses," an address given by Dr. Francis W. Peabody before the Pacific Northwest Medical Association, Seattle, Wash., June 15 and 16, 1923.

"The Opportunity of the Section on Medical Sciences," an address given by Dr. Francis W. Peabody before the American Association for the Advancement of Science, Section on Medical Sciences, Cincinnati, Ohio, December 30, 1923.

"Notes on the Treatment of Heart Disease," an address given by Dr. William H. Robey before the Cumberland Medical Society, February 23, 1923.

"Heart Disease — Its Cause and Prevention," an address given by Dr. William H. Robey at the Boston Health Show, October 7, 1923.

"Cancer, Diabetes and Heart Disease," an address given by Dr. William H. Robey before Boston Federation of Women's Clubs, at the Boston City Hospital, November 7, 1923.

"Rheumatic Fever," an address given by Dr. William H. Robey at a Clinical Meeting of the Boston City Hospital, November 2, 1923.

"Convalescence," an address given by Dr. William H. Robey at the Chickering House, November 8, 1923.

"Medical Supervision of Athletics at Harvard," read by Dr. T. K. Richards before the annual meeting of the Students' Health Association, Cincinnati, Ohio, January 2, 1924.

"Notes on the Use of Huntton's Pneumococcus Antibody Solution," read by Dr. George P. Sanborn before the Boston Bacteriological Club, April 7, 1923.

"Early Detection of Asymptomatic Neurosyphilis," read by Dr. George P. Sanborn before the Hillsboro County Medical Society, Manchester, N. H., October, 1923.

"The Use of Tartar Emetic," an address given by Dr. George C. Shattuck before the Boston Medical History Club February 19, 1923.

"Investigations Upon Flagellate Infections," lecture given by Dr. Richard P. Strong before the Boston meeting of the American Public Health Association, October 8, 1923.

"A Flagellate Infecting Plants and its Animal Hosts," a lecture given by Dr. Richard P. Strong before the American Academy of Arts and Sciences, December 12, 1923.

"The Relationship of Certain Parasitic Infections of Plants to Animals," a lecture given by Dr. Richard P. Strong before the American Association Advancement of Science, Cincinnati, December 29, 1923.

"The Late Manifestations of Epidemic Encephalitis," read by Dr. John J. Thomas, before the Boston City Hospital Clinical Meeting, January 4, 1924. (To be published soon.)

Dr. Charles S. Gibson's paper on "Acute Perforation of Stomach and Duodenum," discussed by Dr. Irving J. Walker before the Massachusetts Medical Society, June 13, 1923.



"Modern Diagnosis of Diseases of the Gall Bladder, including the X-Ray and Biliary Drainage," an address given by Dr. Franklin W. White before the Newton Medical Club, February 12, 1923, and also read before the Hartford Medical Society, October 1, 1923.

"Medical Biliary Drainage for Diagnosis and Treatment of Diseases of the Gall Bladder," read by Dr. Franklin W. White before the Lawrence Hospital Meeting, November 21, 1923.

#### HOUSE OFFICERS.

The Herbert L. Burrell Ether Prize, given for administering anesthetics in the most skillful and humane manner, was awarded to Harry C. Lapp, M. D., of the Second Surgical Service.

#### CHANGES IN RULES.

The following changes have been made in the rules:

The new rules submitted by the Senior Staff for the government of House Officers have been approved by the trustees and put in force.

The term of service for Pediatric House Officers has been extended from eight to ten months.

Several Assistant Resident Physicians have been added to the staff of the Thorndike Memorial, and one has been added to the Pediatric Service.

The following rule has been made: That a member of the Visiting Staff, when publishing an article and using his hospital title, shall receive the consent of the head of his particular department before submitting such article for publication.

#### GIFTS AND BEQUESTS.

Under the will of Catherine Watson, a bequest of \$6,000 was received. This money is to be kept as a separate fund, the income only to be used for maintenance of a free bed, this bed to be known as the "William F. Watson Free Bed." The sum of \$6,000 being considered inadequate for this purpose, it was voted to allow the income to accumulate until the principal and interest together form a fund of \$25,000.



By the will of Ann Maria Fosdick, the hospital received a bequest of one tenth of the residuary estate. In December, a partial distribution was made of this estate, the hospital receiving \$8,000. The trustees voted to use the interest accruing on this fund to pay special nurses for needy patients.

The hospital being a residuary beneficiary under the will of Joseph Thompson, \$2,000 was received from this estate in June and \$1,000 in October. It was voted that the interest from this fund be used to supply special nurses for needy patients.

In July, an additional \$10,000 was paid to the city treasury by the Trustees of the George L. Thorndike Estate, so making the total amount received from this estate \$237,500.

In July, a copy of the will of Dr. Albert N. Blodgett was received. By provision of this will, the hospital comes into possession of a legacy in the year 1952.

In June, \$600 worth of insulin was given to the hospital by the New England Deaconess Hospital.

The trustees are greatly indebted to his Honor the Mayor and to the members of the City Council for their generous financial and moral support. They are likewise indebted to the Superintendent and Staff, and to all others who so generously gave their aid and assistance in promoting the welfare of the hospital throughout the year.

Respectfully submitted,

JOSEPH P. MANNING, *President.*

THOMAS A. FORSYTH, *Secretary.*

HENRY S. ROWEN, M. D.

GEORGE G. SEARS, M. D.

CARL DREYFUS.

## REPORT OF THE SUPERINTENDENT AND MEDICAL DIRECTOR.

BOSTON CITY HOSPITAL, February 1, 1924.

*To the Trustees:*

GENTLEMEN,—I present herewith the annual report of the Hospital Department for the year ending January 31, 1924.

On June 1, 1864, The Boston City Hospital was opened for the admission of patients. Since that time the number of house patients treated in the different departments has been 588,059, and the number of out-patients, 2,168,396. The table on page 71 shows the number of patients who have been treated in the hospital proper and the South Department during the last ten years. The principal statistics for the year are shown on pages 73 and 74. The other tables are self-explanatory.

Patients admitted to the hospital according to services:

Medical services . . . . .	6,221
Surgical services . . . . .	8,648
Gynecological service . . . . .	1,773
Pediatric service . . . . .	713
Ophthalmic service . . . . .	151
Aural and laryngological services . . . . .	2,529
Neurological service . . . . .	473
Dermatological service . . . . .	114
Total . . . . .	<u>20,622</u>

Number of visits of patients to the hospital for advice and treatment in the Out-Patient Departments:

Medical diseases . . . . .	17,462
Surgical diseases . . . . .	89,217
Diseases of the eye . . . . .	10,731
Diseases of the ear and throat . . . . .	9,641
Carried forward . . . . .	<u>127,051</u>

<i>Brought forward</i> . . . . .	127,051	
Diseases of the skin . . . . .	11,311	
Diseases of women and obstetrical service . . . . .	5,147	
Diseases of the nervous system . . . . .	2,401	
X-ray diagnosis and treatment . . . . .	12,434	
Physical therapeutics . . . . .	35,078	
Vaccine and serum inoculation . . . . .	6,606	
Diabetic, nephritic and thyroid cases . . . . .	4,050	
Dental cases . . . . .	361	
Cardiac cases . . . . .	855	
Gastro-intestinal cases . . . . .	336	
Pediatric cases . . . . .	2,290	
Blood cases . . . . .	1,130	
Surgical out-patients treated in Accident Room . . . . .	6,778	
<b>Total</b> . . . . .	<b>215,828</b>	
Less visits counted more than once:		
In X-Ray Department . . . . .	9,812	
In Department of Physical Therapeutics . . . . .	2,253	
In Department of Immunology . . . . .	272	
In Diabetic, Nephritic and Thyroid Service, . . . . .	4,050	
In Dental Department . . . . .	289	
In Cardiac Clinic . . . . .	146	
In Gastro-Intestinal Clinic . . . . .	336	
In Pediatric Clinic . . . . .	34	
In Blood Service . . . . .	534	
In Accident Room . . . . .	5,027	
	<hr/>	22,753
<b>Total visits</b> . . . . .		<b><u>193,075</u></b>

TABLE OF ADMISSIONS AND DEATHS FROM FEBRUARY 1, 1914, TO JANUARY 31, 1924.  
*Hospital Proper and South Department.*

	Patients Admitted.	Patients Accidentally Injured Admitted.	Number of Out- Patients Treated.	Number of Patients in Hospital at Beginning of Year.	Number of Ward Patients Treated.	Died.	Rate of Mortality.
February 1, 1914, to January 31, 1915.....	16,498	1,410	43,891	893	17,391	1,671	.096
February 1, 1915, to January 31, 1916.....	18,456	1,508	39,351	949	19,405	1,760	.091
February 1, 1916, to January 31, 1917.....	19,800	1,328	35,867	935	20,735	1,885	.091
February 1, 1917, to January 31, 1918.....	20,753	2,262	34,297	859	21,612	1,948	.090
February 1, 1918, to January 31, 1919.....	19,982	1,799	29,488	929	20,911	2,434	.116
February 1, 1919, to January 31, 1920.....	17,593	1,577	31,103	861	18,454	1,382	.075
February 1, 1920, to January 31, 1921.....	16,406	1,215	28,896	902	17,308	1,359	.079
February 1, 1921, to January 31, 1922.....	18,844	1,915	32,377	979	19,823	1,400	.071
February 1, 1922, to January 31, 1923.....	22,174	2,601	37,419	993	23,167	1,796	.078
February 1, 1923, to January 31, 1924.....	23,181	2,485	38,690	1,097	24,278	1,861	.077

The total number of patients admitted to the wards since the opening of the hospital and South Department has been 542,239 and the number of out-patients has been 1,310,770.

## HOSPITAL PROPER.

APPLICANTS EXAMINED FOR ADMISSION DURING THE  
YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1923.	February.....	1,669	1,630	39
	March.....	1,846	1,776	70
	April.....	1,843	1,772	71
	May.....	1,725	1,673	52
	June.....	1,727	1,688	39
	July.....	1,801	1,776	25
	August.....	1,684	1,668	16
	September.....	1,599	1,582	17
	October.....	1,807	1,779	28
	November.....	1,786	1,755	31
	December.....	1,792	1,758	34
1924.	January.....	1,807	1,765	42
	Totals.....	21,086	20,622	464

## PRINCIPAL STATISTICS, 1923-24.

*Number of Patients.*

Number of patients remaining in the hospital proper  
January 31, 1923 . . . . . 847

Admitted from February 1, 1923, to January  
31, 1924, inclusive:

Medical . . . . .	6,221	
Surgical . . . . .	8,648	
Gynecological . . . . .	1,773	
Pediatric . . . . .	713	
Ophthalmic . . . . .	151	
<hr/>		
Carried forward . . . . .	17,506	847



<i>Brought forward</i> . . . . .	17,506	847
Aural and laryngological . . . . .	2,529	
Neurological . . . . .	473	
Dermatological . . . . .	114	
	<hr/>	20,622
Treated during the year . . . . .		21,469
Discharged during the year . . . . .	18,963	
Died during the year . . . . .	1,670	
	<hr/>	20,633
		<hr/>
Number of patients remaining in the hospital proper		
January 31, 1924 . . . . .		836
Number of births during the year . . . . .		737
Number of deaths . . . . .		1,670
Number of deaths within forty-eight hours of admission . . . . .		584
Largest number of patients in hospital on any one day,		909
Smallest number of patients in hospital on any one day,		664
Daily average number of patients . . . . .		804.3
Average number of days' stay of patients . . . . .		13.7
Number of weeks' treatment given in hospital . . . . .		41,938
Number of days' treatment given in hospital . . . . .		293,569
Number of applicants for admission to hospital . . . . .		21,086
Number of applicants rejected . . . . .		464
Number of visits made by out-patients . . . . .		193,075
Patients carried in ambulances . . . . .		6,602
Number of patients accidentally injured, admitted to the wards . . . . .		2,485

Number of out-patients treated in the Out-Patient Departments, classified according to diseases:

For medical diseases . . . . .	6,290
For surgical diseases . . . . .	13,973
For diseases of the eye . . . . .	3,162
For diseases of the ear and throat . . . . .	4,599
For diseases of the skin . . . . .	2,364
For diseases of women and obstetrical service . . . . .	1,753
	<hr/>
<i>Carried forward</i> . . . . .	32,141

<i>Brought forward</i> . . . . .	32,141
For diseases of the nervous system . . . . .	874
For physical therapeutics . . . . .	2,553
For X-ray diagnosis and treatment . . . . .	10,096
For vaccine and serum inoculation . . . . .	936
Diabetic, nephritic and thyroid cases . . . . .	400
Dental cases . . . . .	289
Cardiac cases . . . . .	146
Gastro-intestinal cases . . . . .	150
Pediatric cases . . . . .	1,318
Blood cases . . . . .	734
Surgical out-patients treated in Accident Room . . . . .	6,778
 Total . . . . .	 <u>56,415</u>

Less patients counted more than once:

In X-Ray Department . . . . .	8,244
In Department of Physical Therapeutics . . . . .	2,253
In Department of Immunology . . . . .	716
In Diabetic, Nephritic and Thyroid Clinics . . . . .	400
In Dental Department . . . . .	226
In Cardiac Clinic . . . . .	146
In Gastro-Intestinal Clinic . . . . .	150
In Pediatric Clinic . . . . .	29
In Blood Service . . . . .	534
In Accident Room . . . . .	5,027
	<u>17,725</u>
 Total number of out-patients treated . . . . .	 <u><u>38,690</u></u>

PRESENT CAPACITY OF THE HOSPITAL DEPARTMENT.

The schedule of beds is as follows:

Hospital proper . . . . .	771
South Department . . . . .	338
Haymarket Square Relief Station . . . . .	27
East Boston Relief Station . . . . .	11
Convalescent Home . . . . .	34
	<u><u>1,181</u></u>

The distribution of beds in the Main Department is as follows:

SERVICES.	WARD.						PRIVATE.				Grand Totals.	
	Males.	Females.	Both Sexes.	Children. (Males.)	Children. (Females.)	Children. (Both Sexes.)	Totals.	Males.	Females.	Both Sexes.		Totals.
Surgical:												
Gynecological and ob- stetrical.....		46				28	74		12		12	86
Other surgical.....	125	63		9	7	8	212	8	4		12	224
Medical, neurological and pediatric.....	122	76	14	30	26	46	314	2	2	4	8	322
Ophthalmic, aural and laryngological.....	12	6					18					18
All services.....	42	36	31				109			12	12	121
Totals.....	301	227	45	39	33	82	727	10	18	16	44	771

### STATISTICS OF PATIENTS ACCORDING TO SERVICES.

*February 1, 1923, to January 31, 1924, Inclusive.*

SERVICES.	In Hospital February 1, 1923.	Admitted.	Discharged.	Died.	Total Discharged and Died.	In Hospital February 1, 1924.
First Surgical.....	54	1,639	1,516	100	1,616	77
Second Surgical.....	65	1,613	1,497	117	1,614	64
Third Surgical.....	70	1,601	1,500	112	1,612	59
Fourth Surgical.....	75	1,599	1,512	97	1,609	65
Fifth Surgical.....	134	2,196	2,084	176	2,260	70
Gynecological.....		1,773	1,585	84	1,669	104
First Medical.....	83	1,571	1,353	223	1,576	78
Second Medical.....	61	1,560	1,364	200	1,564	57
Third Medical.....	86	1,554	1,382	193	1,575	65
Fourth Medical.....	90	1,536	1,363	197	1,560	66
Pediatric.....	65	713	608	109	717	61
Ophthalmic.....	3	151	146		146	8
Aural and Laryngological.....	24	2,529	2,496	17	2,513	40
Neurological.....	28	473	445	41	486	15
Dermatological.....	9	114	112	4	116	7
Totals.....	847	20,622	18,963	1,670	20,633	836

## RECEIPTS AND EXPENDITURES.

*Receipts.*

City appropriation . . . . .	\$1,473,257 88
Interest on trust funds . . . . .	2,424 00
	<u>\$1,475,681 88</u>

*Expenditures.*

Hospital proper and its subdivisions . . . . .	\$1,013,606 57
Out-Patient Department . . . . .	96,457 32
South Department . . . . .	257,907 90
Haymarket Square Relief Station . . . . .	62,925 10
East Boston Relief Station . . . . .	30,346 64
Convalescent Home . . . . .	14,438 35
	<u>\$1,475,681 88</u>

## APPLICANTS NOT ADMITTED DURING THE YEAR.

*February 1, 1923, to January 31, 1924, Inclusive.*

	At First Rejected.	Admitted Later.	Finally Rejected.
<i>Cause of Rejection.</i>			
Self-rejected or deferred.....	670	.....	157
Self-rejected or deferred, but admitted within three days.....		405	.....
Self-rejected or deferred, but admitted later.....		108	.....
State settlement.....	190	.....	138
State settlement but admitted within three days.....		40	.....
State settlement but admitted later.....		12	.....
For want of accommodation.....	208	.....	102
For want of accommodation but admitted within three days.....		80	.....
For want of accommodation but admitted later.....		26	.....
Nonresident.....	70	.....	39
Nonresident but admitted within three days.....		20	.....
Nonresident but admitted later.....		11	.....
For lack of sufficient information.....	17	4	13
Referred to other public institutions.....	21	6	15
Totals.....	1,176	712	464

## RECORD OF AMBULANCE WORK.

*February 1, 1923, to January 31, 1924, Inclusive.**Transportation to the Hospital.**Trips to:*

Business center . . . . .	630
North End . . . . .	152
West End . . . . .	218
Back Bay . . . . .	153
South End . . . . .	956
Roxbury . . . . .	1,030
West Roxbury . . . . .	38
Dorchester . . . . .	633
South Boston . . . . .	343
East Boston . . . . .	695
Charlestown . . . . .	533
Jamaica Plain . . . . .	144
Brighton . . . . .	125
Roslindale . . . . .	52
Hyde Park . . . . .	64
South Department . . . . .	80
<hr/>	
Total trips in . . . . .	5,846
Did not come . . . . .	61
<hr/>	
Patients brought . . . . .	<u>5,785</u>

*Transportation from the Hospital.*

Convalescent Home . . . . .	156
Patients' homes . . . . .	122
Other hospitals . . . . .	439
<hr/>	
Trips out . . . . .	717
Carried extra . . . . .	100
<hr/>	
Patients carried . . . . .	<u>817</u>

*Summaries.*

Total number of trips . . . . .	6,563
Total number of patients . . . . .	<u>6,602</u>



*Record of Work Done by Sedan.*

	Trips.	Miles.
Bringing the physician and surgeon . . . . .	770	4,865
Carrying house officers to obtain permits for autopsies . . . . .	703	5,840
Carrying patients to Convalescent Home (included in previous tables) . . . . .	156	1,404
Totals . . . . .	<u>1,629</u>	<u>12,109</u>

## CENSUS OF DAYS' BOARD OF ALL PERSONS.

*February 1, 1922, to January 31, 1923, Inclusive.**February 1, 1923, to January 31, 1924, Inclusive.*

	Patients.	Officers and Em- ployees.	House Officers.	Special Nurses.	Total Days' Board.
Hospital Proper:					
1922-23.....	273,215	170,214	19,055	14,875	477,359
1923-24.....	293,569	182,719	20,224	20,171	516,683
South Department:					
1922-23.....	68,544	45,558	4,351	962	119,415
1923-24.....	81,365	43,829	4,429	1,336	130,959
Haymarket Square Relief Station:					
1922-23.....	3,639	10,163	1,799	145	15,746
1923-24.....	4,712	10,354	2,020	175	17,261
East Boston Relief Station:					
1922-23.....	660	6,782	.....	5	7,447
1923-24.....	304	7,025	.....	40	7,369
Convalescent Home:					
1922-23.....	5,170	2,696	.....	.....	7,866
1923-24.....	5,720	2,615	.....	.....	8,335
TOTALS:					
1922-23.....	351,228	235,413	25,205	15,987	627,833
1923-24.....	385,670	246,542	26,673	21,722	680,607

## DAILY AVERAGE OF PERSONS.

*February 1, 1922, to January 31, 1923, Inclusive.**February 1, 1923, to January 31, 1924, Inclusive.*

	Patients.	Officers and Em- ployees.	House Officers.	Special Nurses.	Total, All Persons.
Hospital Proper:					
1922-23.....	748.5	466.3	52.2	40.8	1,307.8
1923-24.....	804.3	500.6	55.4	55.3	1,415.6
South Department:					
1922-23.....	187.8	124.8	11.9	2.6	327.1
1923-24.....	222.9	120.2	12.1	3.6	358.8
Haymarket Square Relief Station:					
1922-23.....	10.0	27.8	4.9	.4	43.1
1923-24.....	12.9	28.3	5.6	.5	47.3
East Boston Relief Station:					
1922-23.....	1.8	18.6	.....	.....	20.4
1923-24.....	.8	19.3	.....	.1	20.2
Convalescent Home:					
1922-23.....	14.2	7.4	.....	.....	21.6
1923-24.....	15.7	7.1	.....	.....	22.8
TOTALS:					
1922-23.....	962.3	644.9	69.0	43.8	1,720.0
1923-24.....	1,056.6	675.5	73.1	59.5	1,864.7

# MAXIMUM AND MINIMUM NUMBER OF DAYS' BOARD GIVEN.

*February 1, 1922, to January 31, 1923, Inclusive.*

*February 1, 1923, to January 31, 1924, Inclusive.*

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	All Departments.
Maximum number of days' board of patients:						
1922-23.....	877	283	26	7	22	1,156
1923-24.....	909	328	28	6	27	1,229
Minimum number of days' board of patients:						
1922-23.....	604	100	2	.....	6	750
1923-24.....	664	124	2	.....	3	815
Maximum number of days' board of persons:						
1922-23.....	1,487	441	58	26	30	1,976
1923-24.....	1,587	477	66	28	33	2,143
Minimum number of days' board of persons:						
1922-23.....	1,073	216	31	17	12	1,392
1923-24.....	1,155	235	32	18	10	1,467

## HOSPITAL PROPER.

### NATIVITY OF PATIENTS ADMITTED DURING THE YEAR.

Boston . . . .	7,258	<i>Brought forward,</i>	15,149
Other cities and towns in Massachusetts . . . .	2,088	Italy . . . .	636
Maine . . . .	378	England . . . .	281
New Hampshire . . . .	211	Poland . . . .	163
Vermont . . . .	94	Scotland . . . .	136
Rhode Island . . . .	109	Sweden . . . .	116
Connecticut . . . .	95	Germany . . . .	94
Other states . . . .	938	Lithuania . . . .	65
Ireland . . . .	2,002	Greece . . . .	61
British Provinces . . . .	1,275	West Indies . . . .	60
Russia . . . .	701	Portugal . . . .	54
		Austria . . . .	45
		Armenia . . . .	39
<i>Carried forward,</i>	15,149	<i>Carried forward,</i>	16,899

<i>Brought forward,</i>	16,899	<i>Brought forward,</i>	17,192
China . . . .	38	Europe . . . .	3
Norway . . . .	31	Brazil . . . .	3
France . . . .	26	Central America . .	2
Holland . . . .	23	Argentina . . . .	2
Denmark . . . .	22	Madeira . . . .	2
Cape Verde Islands,	20	Cuba . . . .	2
Albania . . . .	19	Czecho Slovakia . .	2
Turkey . . . .	18	Sicily . . . .	2
Syria . . . .	11	Philippine Islands .	2
Belgium . . . .	11	Japan . . . .	2
Spain . . . .	10	Servia . . . .	2
Finland . . . .	10	British Guiana . .	2
Roumania . . . .	10	Egypt . . . .	1
Wales . . . .	9	Asia Minor . . . .	1
Jamaica . . . .	7	Hawaii . . . .	1
Australia . . . .	6	South Africa . . . .	1
Bermuda . . . .	5	Porto Rico . . . .	1
South America . .	5	Gibraltar . . . .	1
Azores . . . .	4	At sea . . . .	1
Bohemia . . . .	4	Unknown . . . .	3,397
Switzerland . . .	4		
<i>Carried forward,</i>	17,192	Total . . . .	<u>20,622</u>

CONDITION OF PATIENTS DISCHARGED DURING THE  
YEAR.

Well . . . .	1,081	<i>Brought forward,</i>	18,947
Relieved . . . .	16,002	Not treated . . . .	16
Not relieved . . .	1,864	Died . . . .	1,670
<i>Carried forward,</i>	18,947	Total . . . .	<u>20,633</u>

## SOUTH DEPARTMENT.

PRINCIPAL STATISTICS FOR THE YEAR FEBRUARY 1, 1923,  
TO JANUARY 31, 1924.

Number of patients remaining in South Department	
January 31, 1923 . . . . .	250
Admitted from February 1, 1923, to January 31, 1924,	2,559
	<hr/>
Treated during the year . . . . .	2,809
Discharged during the year . . . . .	2,304
Died during the year . . . . .	191
	<hr/>
	2,495
	<hr/>
Number of patients remaining January 31, 1924 . . . . .	314
Maximum number of patients at any one time . . . . .	328
Minimum number of patients at any one time . . . . .	124
Daily average number of patients . . . . .	222.9
Average number of days' stay of patients . . . . .	28.9
Number of days' treatment given patients . . . . .	81,365
Number of weeks' treatment given patients . . . . .	11,624
Number of patients admitted over fifteen years of age, . . . . .	455
Average age of patients . . . . .	9.35
Number of patients dying within forty-eight hours of admission . . . . .	79
Percentage of deaths to discharges . . . . .	7.65
Death rate from all diseases . . . . .	6.8
Death rate from all diseases deducting deaths within twenty-four hours of admission . . . . .	4.77
Number of applicants examined for admission . . . . .	2,769
Number of applicants rejected . . . . .	210
Number of patients carried in ambulances . . . . .	2,062
Number of surgical operations . . . . .	69



### NATIVITY OF PATIENTS ADMITTED TO THE SOUTH DEPARTMENT DURING THE YEAR.

Boston . . . . .	1,669	<i>Brought forward,</i>	2,403
Other cities and towns in Massachusetts . . . . .	337	France . . . . .	3
Maine . . . . .	36	Sweden . . . . .	3
New Hampshire . . . . .	41	Armenia . . . . .	3
Vermont . . . . .	11	South America . . . . .	2
Rhode Island . . . . .	12	Greece . . . . .	2
Connecticut . . . . .	21	Austria . . . . .	2
Other states . . . . .	68	Norway . . . . .	1
British Provinces . . . . .	122	Jamaica . . . . .	1
Ireland . . . . .	32	Wales . . . . .	1
Russia . . . . .	22	China . . . . .	1
Italy . . . . .	13	Syria . . . . .	1
England . . . . .	7	Portugal . . . . .	1
Germany . . . . .	4	Bermuda . . . . .	1
Scotland . . . . .	4	West Indies . . . . .	1
Turkey . . . . .	4	Finland . . . . .	1
		Unknown . . . . .	132
<i>Carried forward,</i>	2,403	<b>Total . . . . .</b>	<b><u>2,559</u></b>

### CONDITION OF PATIENTS DISCHARGED FROM THE SOUTH DEPARTMENT DURING THE YEAR.

Well . . . . .	2,159	<i>Brought forward,</i>	2,304
Relieved . . . . .	54	Died . . . . .	191
Not relieved . . . . .	91		
<i>Carried forward .</i>	2,304	<b>Total . . . . .</b>	<b><u>2,495</u></b>

### APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1923.	February.....	256	225	31
	March.....	274	252	22
	April.....	278	259	19
	May.....	300	284	16
	June.....	210	191	19
	July.....	159	145	14
	August.....	148	136	12
	September.....	133	123	10
	October.....	221	205	16
	November.....	235	213	22
	December.....	295	286	9
	January.....	260	240	20
1924.				
	Totals.....	2,769	2,559	210

Trips to:	
Business center . . . . .	4
North End . . . . .	61
West End . . . . .	166
Back Bay . . . . .	32
South End . . . . .	364
Roxbury . . . . .	420
Dorchester . . . . .	216
West Roxbury . . . . .	10
South Boston . . . . .	169
East Boston . . . . .	165
Charlestown . . . . .	206
Jamaica Plain . . . . .	66
Brighton . . . . .	62
Roslindale . . . . .	15
Hyde Park . . . . .	24
Suburban towns . . . . .	7
<hr/>	
Total number of trips . . . . .	1,987
Carried extra . . . . .	100
Patients rejected . . . . .	25
<hr/>	
Total patients carried . . . . .	2,062

Table No. 1.  
DISBURSEMENTS ACCORDING TO VARIOUS SUBDIVISIONS.

	Hospital Proper.	Out-Patient Department.	Laboratories.	X-Ray and Photographic Department.	Department of Physical Therapeutics.	Department of Social Work.	Settlement Account.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	Totals.
Subsistence supplies.....	\$217,951 95							\$49,494 48	\$8,465 65	\$2,548 81	\$3,849 24	\$282,310 13
Fuel.....	63,784 30	\$7,836 02	\$5,120 12	\$1,079 68				32,053 97	3,091 52	1,605 24	1,987 14	116,557 99
Medical supplies.....	85,330 11	3,457 82	6,878 86	20,234 13	\$1,645 75			5,952 68	3,510 58	2,243 24	98 29	129,351 46
Salaries and labor.....	418,614 04	20,102 67	56,593 86	13,953 42	10,159 97	\$11,693 79	\$695 57	126,324 15	39,250 71	19,718 97	6,949 73	724,056 88
Buildings, repairs.....	33,885 34	1,171 65	1,598 55	158 25				8,951 81	722 44	246 58	102 18	46,836 80
Grounds.....	1,531 29							405 89	20 99	11 50	122 24	2,091 91
Ice.....	5,604 72							929 89	551 05	365 43	391 74	7,842 83
Electric lighting, power and gas.....	9,570 49	48 78	339 68	344 35	96 50			2,208 72	1,639 69	616 87	414 18	15,279 26
Soap and cleansing stuffs, matches, etc.....	6,008 28	33 79	45 79	5 42				985 40	162 96	53 80	28 33	7,323 77
Furniture, furnishings and fixtures.....	23,517 55	347 44	533 29	460 45	262 00		96 70	3,981 56	695 73	182 23	156 85	30,233 80
Beds and bedding.....	20,632 07	250 54	331 97	27 32	278 38	26 35		6,468 91	528 84	179 11	46 14	28,769 63
Dry goods, uniforms and clothing.....	10,397 41	181 76	923 46	110 98	274 46			7,470 22	582 19	183 50	110 80	20,234 78
Stationery, printing, postage and advertising.....	10,648 09	1,230 08	541 08	981 90	71 84	436 36	584 48	295 82	499 32	268 58	35 48	15,593 03
Transportation, cartage and freight.....	1,175 72		34 76	25 09	4 10	458 00		19 42	325 00	147 00	28 50	2,217 59
Telephones and telegraph.....	3,423 68	355 70	35 57			520 21		1,910 34	597 11	197 31	56 95	7,096 87
Laundry repairs, etc.....	15,803 45	727 02						1,532 29	1,092 99	545 26	2 30	19,703 31
Garage and ambulance.....	8,829 31							1,612 33	668 33	709 36	58 26	11,877 59
Animals and their maintenance.....			411 10									411 10
Training School for Nurses: general supplies.....	2,467 58							191 10				2,658 68
Annual reports.....	333 14							88 56				421 70
Medical library.....	807 40											807 40
Loose leaf records: general expenses.....	2,419 95							263 35				2,683 30
Incidentals.....	1,304 96		13 26							3 85		1,322 07
Totals.....	\$944,040 83	\$35,743 27	\$73,401 35	\$37,380 99	\$12,793 00	\$13,134 71	\$1,376 75	\$251,140 89	\$62,405 10	\$29,826 64	\$14,438 35	\$1,475,681 88
Adjustment:												
(A) Laboratories (\$73,401.35).....	63,849 72	4,608 33						4,943 30				
(B) X-Ray and Photographic Department(\$37,380.99)	45% 16,821 45	53% 19,811 92						2% 747 62				
(C) Department of Physical Therapeutics(\$12,793)...	9% 1,151 37	91% 11,641 63										
(D) Department of Social Work (\$13,134.71).....	35% 4,597 15	61% 8,012 17						4% 525 39				
(E) Settlement Account (\$1,376.75).....	60% 826 05							40% 550 70				
Totals.....	\$1,031,286 57	\$79,817 32						\$257,907 90	\$62,405 10	\$29,826 64	\$14,438 35	\$1,475,681 88
Charged from hospital on account of board of employees:												
Out-Patient Department..... \$16,640 00		+16,640 00										
Haymarket Square Relief Station..... 520 00									+520 00			
East Boston Relief Station..... 520 00	-17,680 00									+520 00		
Total operating expenses.....	\$1,013,606 57	\$96,457 32						\$257,907 90	\$62,925 10	\$30,346 64	\$14,438 35	\$1,475,681 88
Deduct for new construction.....	10,516 02	1,413 73						4,643 95				16,573 70
Deduct increase in stock on hand more than February 1, 1923.....	\$1,003,090 55	\$95,043 59						\$253,263 95	\$62,925 10	\$30,346 64	\$14,438 35	\$1,459,108 18
Add decrease in stock on hand less than February 1, 1923..	2,813 00								297 00			3,110 00
Amount properly chargeable to maintenance.....	\$1,000,277 55	\$95,043 59						\$253,545 95	\$62,628 10	\$30,402 64	\$14,883 35	\$1,456,781 18
Cost per day per ward patient.....	3 41							3 12	3 34	3 34	2 60	
Cost per visit per out-patient.....		0 49							1 80	1 17		







Table No. 2.

## EXPENDITURES IN ACCORDANCE WITH THE UNIFORM

PARTICULARS.	MAIN HOSPITAL.		OUT-PATIENT DEPARTMENT.	
	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.
Administration:				
Salaries.....	\$76,680 03		\$4,512 57	
Expenses.....	16,277 93	\$92,957 96	1,585 78	\$6,098 35
PROFESSIONAL CARE OF PATIENTS.				
Physicians:				
Salaries.....		3,327 03		
Anæsthetists:				
Salaries.....		916 53		
Superintendent of Nurses and Assistants:				
Salaries.....		11,480 54		
Head Nurses:				
Salaries.....		33,918 86		1,920 00
Undergraduate Nurses:				
Salaries.....		17,065 43		540 00
Male Nurses:				
Salaries.....		22,192 97		3,107 00
Ward Employees:				
Salaries.....		67,659 91		
Apothecaries and Assistants:				
Salaries.....		4,289 17		458 02
Medical and Surgical Supplies:				
Expenses.....		91,282 79		3,457 82
X-Ray and Photographic Department:	47%		53%	
Salaries.....	\$6,558 11		\$7,395 31	
Expenses.....	11,010 96	17,569 07	1,416 61	19,811 92
Laboratories:				
Pathological Laboratory:	95%		5%	
Salaries.....	\$26,531 03		\$1,396 37	
Thorndike Memorial Laboratory:				
Salaries.....	17,071 09			
Blood Laboratory:	80%		20%	
Salaries.....	4,022 37		1,005 59	
Pediatric Service:	95%		5%	
Salaries.....	4,188 35		220 44	
Department of Immunology:	8%		92%	
Salaries.....	172 69		1,985 93	
Total Laboratory Salaries.....	\$51,985 53		\$4,608 33	
Laboratory Expenses.....	16,807 49	68,793 02		4,608 33
Department of Physical Therapeutics:	9%		91%	
Salaries.....	\$914 40		\$9,245 57	
Expenses.....	236 97	1,151 37	2,396 06	11,641 63
Department of Social Work:	39%		61%	
Salaries.....	\$4,560 58		\$7,133 21	
Expenses.....	561 96	5,122 54	878 96	8,012 17
Settlement Account:				
Salaries.....	\$695 57			
Expenses.....	681 18	1,376 75		
DEPARTMENT EXPENSES.				
Ambulance:				
Salaries.....	\$20,217 27			
Expenses.....	11,875 94	32,093 21		
Carried forward.....		\$471,197 15		\$59,655 24

Table No. 2.

## SYSTEM OF HOSPITAL ACCOUNTING.

HAYMARKET SQUARE RELIEF STATION.		EAST BOSTON RELIEF STATION.		CONVALESCENT HOME.		Total Expenditures.	Total Expenditure.
Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.		
\$7,918 05 .....		\$4,726 79 .....		\$2,381 40 .....			
1,096 43 .....		465 89 .....		92 43 .....			
	\$9,014 48		\$5,192 68		\$2,473 83	\$115,737 30	\$115,737 30
	145 00		54 17			\$3,526 20	
						916 53	
	1,358 70		24 56			12,863 80	
	1,261 00		1,000 00		992 18	39,092 04	
	768 97		401 43			18,775 83	
	1,032 72		939 00			27,271 69	
	3,996 10		1,143 43			72,799 44	
	229 00		229 00		229 00	5,434 19	
	3,510 58		2,243 24		98 29	100,592 72	
\$772 75							
	772 75					38,153 74	
						73,401 35	
						12,793 00	
						13,134 71	
						1,376 75	
							420,131 99
\$5,816 08 .....		\$335 47 .....		\$503 21 .....			
668 33 .....		709 36 .....		58 26 .....			
	6,484 41		1,044 83		561 47	\$40,183 92	
	\$28,573 71		\$12,272 34		\$4,354 77	\$151,248 15	\$535,869 29

Table No. 2.—Concluded.

PARTICULARS.	MAIN HOSPITAL.		OUT-PATIENT DEPARTMENT.	
	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.
<i>Brought forward</i> .....		\$471,197 15		\$59,655 24
Training School:				
Salaries.....	\$9,098 47			
Expenses.....	2,710 69			
		11,809 16		
Housekeeping:				
Salaries.....	\$80,287 08		\$3,289 00	
Expenses.....	7,097 97		31 68	
		87,385 05		3,320 68
Equipment:				
Expenses.....		59,573 97		637 99
Steward's Department:				
Salaries.....	\$5,133 39		\$17 57	
Expenses.....	267,446 43			
		272,579 82		17 57
Kitchen and Dining Room:				
Salaries.....		44,424 74		
Laundry:				
Salaries.....	\$53,442 30		\$1,630 38	
Expenses.....	22,868 04		727 02	
		76,310 34		2,357 40
Heat, Light and Power:				
Salaries.....	\$48,054 34		\$4,486 63	
Expenses.....	100,748 43		7,886 91	
		148,802 77		12,373 54
BUILDINGS AND GROUNDS.				
Buildings:				
Salaries.....	\$36,059 36		\$141 50	
Expenses.....	42,785 14		1,171 65	
		78,844 50		1,313 15
Grounds:				
Salaries.....	\$7,472 59			
Expenses.....	1,937 18			
		9,409 77		
Miscellaneous Expenses:				
Salaries.....	\$3,218 18			
Expenses.....	25,639 02			
		28,857 20		141 75
Totals.....		\$1,289,194 47		\$79,817 32
Deduct board of employees.....		17,680 00		
Add board of employees.....				16,640 00
Total operating expenses.....		\$1,271,514 47		\$96,457 32
Deduct for new construction.....		15,159 97		1,413 73
Net total operating expenses.....		\$1,256,354 50		\$95,043 59
Deduct difference in stock on hand more than February 1, 1923.....		2,531 00		
Add difference in stock on hand less than February 1, 1923.....				
Amount properly chargeable to maintenance.....		\$1,253,823 50		\$95,043 59
Total patients' days' treatment.....	374,934			
Cost per day for ward patient.....		3 34		
Total visits of out-patients.....		193,075		
Cost per visit per out-patient.....				0 49

Table No. 2.—Concluded.

HAYMARKET SQUARE RELIEF STATION.		EAST BOSTON RELIEF STATION.		CONVALESCENT HOME.		Total Expenditures.	Total Expenditures.
Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.		
.....	\$28,573 71	.....	\$12,272 34	.....	\$4,354 77	\$151,248 15	\$535,869 29
.....		.....		.....		11,809 16	
\$4,531 34	.....	\$1,714 46	.....	\$2,080 75	.....		
159 61	.....	52 41	.....	10 77	.....		
	4,690 95		1,766 87		2,091 52	99,255 07	
.....	1,484 76	.....	449 84	.....	301 24	62,447 80	
\$87 87	.....	\$35 15	.....	\$35 15	.....		
8,465 65	.....	2,548 81	.....	3,849 24	.....		
	8,553 52		2,583 96		3,884 39	287,619 26	
.....	1,302 76	.....	1,219 96	.....	48 11	46,995 57	
\$4,134 75	.....	\$2,725 74	.....	\$348 00	.....		
1,092 99	.....	545 26	.....	2 30	.....		
	5,227 74		3,271 00		350 30	87,516 78	
\$5,709 96	.....	\$5,129 85	.....	\$6 36	.....		
4,734 56	.....	2,223 50	.....	2,404 43	.....		
	10,444 52		7,353 35		2,410 79	181,384 97	\$17,212 53
.....		.....		.....			
\$185 66	.....	\$39 96	.....	\$199 23	.....		
722 44	.....	246 58	.....	102 18	.....		
	908 10		286 54		301 41	\$81,653 70	
.....		.....		.....			
\$20 99	.....	\$11 50	.....	\$126 34	.....		
	20 99		11 50	122 24	.....		
					248 58	9,690 84	91,344 54
.....	1,198 05	.....	611 28	.....	447 24	\$31,255 52	31,255 52
.....	\$62,405 10	.....	\$29,826 64	.....	\$14,438 35	.....	\$1,475,681 88
.....		.....		.....			17,680 00
.....	520 00	.....	520 00	.....			\$1,458,001 88
.....		.....		.....			17,680 00
.....	\$62,925 10	.....	\$30,346 64	.....	\$14,438 35	.....	\$1,475,681 88
.....		.....		.....			16,573 70
.....	\$62,925 10	.....	\$30,346 64	.....	\$14,438 35	.....	\$1,459,108 18
.....	297 00	.....		.....			2,828 00
.....		.....	56 00	.....	445 00	.....	\$1,456,280 18
.....		.....		.....			501 00
.....	\$62,628 10	.....	\$30,402 64	.....	\$14,883 35	.....	\$1,456,781 18
4,712	.....	304	.....	5,720	.....		
26,030	3 34	25,055	3 34		2 60		
.....	1 80	.....	1 17	.....			

Table No. 3.

EXPENDITURES, CLASSIFIED, IN ACCORDANCE WITH SEGREGATED BUDGET FOR THE YEAR ENDING, JANUARY 31, 1924.

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1923-1924.	
A. PERSONAL SERVICE.....		\$720,838 70
Permanent employees.....	\$674,546 36	
Temporary employees.....	16,454 59	
Unassigned.....	29,837 75	
B. SERVICES OTHER THAN PERSONAL.....		74,547 93
Printing and binding.....	\$727 70	
Postage.....	1,210 38	
Advertising and posting.....	24 50	
Transportation of persons.....	1,973 75	
Cartage and freight.....	874 49	
Light and power.....	6,206 54	
Premium on surety bond.....	203 81	
Communication.....	7,100 91	
Motor vehicle, repairs and care.....	4,675 38	
Motorless vehicle, repairs and care.....	575 57	
Cleaning.....	5 66	
Removal of snow.....	985 94	
Expert and architect.....	701 35	
Extermination of insects.....	1,372 50	
Fees, service of venires, etc.....	18 21	
Boiler inspection.....	60 00	
General plant repairs.....	47,831 24	
C. EQUIPMENT.....		106,319 08
Machinery.....	\$3,117 50	
Electrical.....	1,397 37	
Motor vehicles.....	3,844 05	
Motorless vehicles.....	353 57	
Furniture and fittings.....	41,945 96	
Office.....	631 25	
Library.....	526 40	
Carried forward.....	\$51,816 10	\$901,705 71



EXPENDITURES CLASSIFIED, IN ACCORDANCE WITH SEGREGATED  
BUDGET FOR THE YEAR ENDING JANUARY 31, 1924.— *Concluded.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1923-1924.	
<i>Brought forward</i> .....	\$51,816 10	\$901,705 71
Medical, surgical, laboratory.....	33,707 15	
Tools and instruments.....	6,190 52	
Wearing apparel.....	14,605 31	
D. SUPPLIES.....		536,895 79
Office.....	\$17,279 42	
Food and ice.....	290,333 52	
Fuel.....	116,557 99	
Forage and animal.....	417 10	
Medical, surgical, laboratory.....	88,163 55	
Laundry, cleaning and toilet.....	17,253 11	
Educational and recreational.....	760 42	
Agricultural.....	275 50	
Motor vehicle.....	3,185 90	
Chemicals and disinfectants.....	200 75	
General plant.....	2,468 53	
E. MATERIALS.....		33,862 20
Building.....	\$18,952 11	
Machinery.....	2,766 70	
Electrical.....	3,907 88	
General plant.....	8,235 51	
F. SPECIAL ITEMS.....		3,218 18
Pensions and annuities.....	\$1,590 72	
Workingmen's compensation.....	1,627 46	
Total expenditures.....		\$1,475,681 88

Table No. 4.

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY  
31, 1924, INCLUSIVE.

ARTICLES.	Quantity.	Average Price.	Cost.
THE MAIN HOSPITAL, SOUTH DEPARTMENT, HAYMARKET SQUARE RELIEF STATION, EAST BOSTON RELIEF STATION AND CONVALESCENT HOME.			
<i>Subsistence Supplies.</i>			
Beef and veal.....	165,939 lbs.	\$0.195 per lb.	\$32,424 12
Mutton and lamb.....	68,125 "	.225 "	15,345 16
Poultry.....	55,521 "	.314 "	17,456 41
Pork and ham.....	88,763 "	.178 "	15,827 24
Fish.....			9,209 69
Lard.....	5,287 "	.136 "	719 74
Milk.....	503,043 qts.	.122 per qt.	61,436 22
Milk (powdered).....	3,123 lbs.	.145 per lb.	453 36
Butter.....	56,363 "	.436 "	24,556 36
Cheese.....	2,056 "	.307 "	631 07
Eggs.....	55,179 doz.	.46 per doz.	25,364 50
Vegetables, fresh.....			18,148 96
Vegetables, canned.....			6,993 77
Fruit, fresh.....			7,320 02
Fruit, canned.....			12,525 54
Flour.....	937 bbls.	6.255 per bbl.	5,861 22
Graham flour.....	5 "	5.50 "	27 50
Oatmeal.....	70½ "	6.158 "	434 17
Cornstarch and farina.....	2,408 lbs.	.065 per lb.	157 00
Rice.....	11,500 "	.055 "	627 50
Other cereals.....			2,824 84
Groceries.....			5,576 84
Coffee.....	20,360 lbs.	.258 per lb.	5,248 42
Tea.....	7,506 "	.369 "	2,773 30
Chocolate and cocoa.....	1,976 "	.047 "	93 49
Sugar.....	114,779 "	.088 "	10,089 17
Molasses and syrup.....	308 gals.	.599 per gal.	184 52
<i>Carried forward.....</i>			\$282,310 13

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i> .....		\$282,310 13
<i>General Supplies.</i>		
Printing.....	\$6,067 56	
Stationery.....	4,818 33	
Postage.....	836 90	
Advertising proposals, etc.....	24 50	
Telephone rentals.....	5,328 39	
Telephone, telegraph and messenger service.....	857 00	
Nurses' Home.....	52 01	
Vose House:		
General supplies.....	\$1,354 45	
Wages — housecleaning.....	395 28	
	1,749 73	
Lucy L. Drown House:		
General supplies.....	\$977 23	
Wages — housecleaning.....	570 24	
	1,547 47	
Training School for Nurses.....	327 00	
Garage and ambulance:		
Expenses.....	\$8,754 05	
Coal, 28 tons.....	296 52	
Oil, 26,460 gallons.....	1,137 78	
	10,188 35	
Garage supplies.....	102 12	
Gasolene.....	3,021 42	
Soap and cleansing stuffs.....	6,963 49	
Dry goods.....	5,608 21	
Furniture.....	4,667 77	
Furnishings.....	20,978 01	
Fixtures.....	2,684 07	
Bedsteads.....	1,246 59	
Mattresses.....	1,559 00	
Bedding.....	25,049 48	
Laundry Supplies:		
Expenses.....	\$18,976 29	
Coal, 108 tons.....	1,143 72	
Oil, 102,060 gallons.....	4,388 58	
	24,508 59	
<i>Carried forward</i> .....	\$128,185 99	\$282,310 13

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i> .....	\$128,185 99	\$282,310 13
<i>General Supplies.— Concluded.</i>		
Gas, 3,477,500 cubic feet at \$1.22 per 1,000 cubic feet.....	4,229 88	
Electric light purchased.....	1,400 25	
Electric light system.....	3,289 68	
Electrical appliances.....	5,530 14	
Kerosene, matches and candles, etc.....	105 40	
Ice, 1,120 <del>1333</del> tons at \$6.998 per ton.....	7,842 83	
Transportation and express.....	1,304 71	
Cartage and freight.....	390 93	
Insurance.....	203 81	
Clothing for patients.....	12,101 24	
Uniforms, caps, etc.....	1,034 67	
Annual reports.....	421 70	
Medical Library.....	807 40	
Clinical records:		
Expense..... \$2,683 30		
Salaries..... 5,341 59		
	8,024 89	
House cleaning:		
Soap..... \$169 88		
Brushes, etc..... 204 07		
	373 95	
Incidentals not otherwise classified.....	1,105 00	
		176,352 47
<i>Medical Supplies.</i>		
Surgical appliances.....	\$11,387 48	
Apparatus.....	507 73	
Splints and crutches.....	792 64	
Surgical instruments.....	11,118 85	
X-ray apparatus.....	8 60	
X-ray supplies.....	7 50	
Surgical dressings.....	3,551 58	
Bandage and compress materials.....	7,404 22	
Gauze.....	18,146 87	
Absorbent cotton.....	3,901 33	
Oxygen gas.....	737 59	
<i>Carried forward</i> .....	\$57,564 39	\$458,662 60

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.—*Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i> .....	\$57,564 39	\$458,662 60
<i>Medical Supplies.—Concluded.</i>		
Sulphuric ether.....	2,129 39	
Medicine and drugs.....	17,223 81	
Druggists' sundries.....	3,370 55	
Flaxseed meal.....	1,152 52	
Alcohol.....	2,505 33	
Radium.....	7,350 00	
Liquors.....	2,264 11	
Malt liquors and mineral waters.....	3,574 80	97,134 90
<i>Fuel.</i>		
Coal, 1,792 <sup>2</sup> / <sub>24</sub> tons at \$11.142 per ton.....	\$19,967 83	
Oil, 1,763,332 gallons at \$0.042 per gallon.....	74,860 28	
Charcoal.....	210 00	
Coke.....	517 46	95,555 57
<i>Salaries and Labor.</i>		
Salaries and wages.....	\$6,240 00	
Pay rolls.....	584,033 94	
Wages, housecleaners.....	11,058 37	
Pensions.....	1,590 72	
Injured employees.....	1,627 46	604,550 49
<i>Buildings.</i>		
General repairs.....	\$16,448 43	
Boilers and heating apparatus.....	18,814 72	
Painting.....	3,794 13	
Plumbing.....	3,474 84	
Refrigerating plant.....	248 35	
Walls and fences.....	1,075 87	43,856 34
<i>Grounds.</i>		
Care of grounds.....		2,091 91
Deduct for board of employees:		\$1,301,851 81
<i>Out-Patient Department</i> .....		16,640 00
Total expenditures for maintaining main departments for the year ending January 31, 1924.....		\$1,285,211 81
<i>Carried forward</i> .....		\$1,285,211 81



DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i> .....			\$1,285,211 81
<b>OUT-PATIENT DEPARTMENT.</b>			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$1,230 08		
Telephone rentals.....	355 70		
Soap and cleansing stuffs.....	31 68		
Dry goods, uniforms and caps.....	181 76		
Bedding.....	250 54		
Furnishings and fixtures.....	347 44		
Laundry supplies.....	727 02		
Gas 30,200 cubic feet at \$1.23 per 1,000 cubic feet.....	37 15		
Electric light system.....	11 63		
Kerosene, matches and candles.....	2 11	3,175 11	
<i>Medical Supplies.</i>			
Surgical instruments, appliances, laboratory ware, splints and crutches.....	\$1,109 92		
Dressings, gauze, bandages, absorbent cotton,	1,671 49		
Medicine and drugs, ether and alcohol.....	676 41	3,457 82	
<i>Fuel.</i>			
Coal, 117,117½ tons at \$10.594 per ton.....	\$1,245 54		
Oil, 154,692½ gallons at \$0.043 per gallon...	6,590 48	7,836 02	
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$130 00		
Pay rolls.....	19,972 67	20,102 67	
<i>Buildings.</i>			
Building repairs, heating apparatus and plumbing.....		1,171 65	
		\$35,743 27	
Add for board of Out-patient employees....		16,640 00	52,383 27
<b>LABORATORIES.</b>			
(Including Pathological, Clinical, Thorndike, and Pediatric Laboratories, also Department of Immunology.)			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$541 08		
Telephone rentals.....	35 57		
<i>Carried forward</i> .....	\$576 65		\$1,337,595 08

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i> .....	\$576 65	.....	\$1,337,595 08
LABORATORIES.— <i>Concluded.</i>			
General Supplies.— <i>Concluded.</i>			
Soap and cleansing stuffs.....	30 53		
Dry goods, uniforms, caps and clothing.....	923 46		
Mattresses and bedding.....	331 97		
Furniture, furnishings and fixtures.....	511 86		
Gas, 194,500 cubic feet at \$1.23 per 1,000 cubic feet.....	239 26		
Electric light system.....	79 90		
Electrical appliances.....	20 52		
Kerosene, matches and candles.....	5 64		
Transportation, cartage and freight.....	34 76		
Animals and their maintenance.....	411 10		
Housecleaning:			
Soap.....\$9 62			
Brushes, etc.....21 43			
	31 05		
Incidentals not otherwise classified.....	13 26		
		\$3,209 96	
Medical Supplies.			
Surgical instruments and appliances.....	\$1,758 68		
Laboratory ware.....	1,780 39		
Gauze, absorbent cotton and bandage.....	521 57		
Chemicals.....	2,728 76		
Blood serum.....	89 46	6,878 86	
Fuel.			
Coal, 58 $\frac{1}{2}$ $\frac{1}{2}$ tons at \$10.594 per ton.....	\$622 76		
Oil, 106,252 $\frac{1}{2}$ gallons at \$0.042 per gallon....	4,497 36		
		5,120 12	
Salaries and Labor.			
Salaries and wages.....	\$65 00		
Pay rolls.....	55,779 34		
Wages, housecleaning.....	749 52		
		56,593 86	
Buildings.			
Building repairs, heating apparatus and plumbing.....		1,598 55	
			73,401 35
<i>Carried forward</i> .....	.....	.....	\$1,410,996 43

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i> .....			\$1,410,996 43
X-RAY AND PHOTOGRAPHIC DEPARTMENT.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$981 90		
Soap and cleansing stuffs.....	5 42		
Dry goods, uniforms, caps, etc.....	110 98		
Bedding.....	27 32		
Furniture and furnishings.....	460 45		
Electric power purchased.....	300 00		
Electric light system.....	10 17		
Electrical appliances.....	34 18		
Cartage and freight.....	25 09	\$1,955 51	
<i>Medical Supplies.</i>			
Surgical appliances.....	\$13 50		
X-ray and photographic supplies.....	16,538 79		
X-ray and photographic apparatus.....	3,188 50		
Dressings, bandage, gauze and absorbent cotton.....	42 05		
Chemicals.....	451 29	20,234 13	
<i>Fuel.</i>			
Coal, 141 $\frac{55}{100}$ tons at \$10.594 per ton.....	\$155 69		
Oil, 21,745 $\frac{4}{10}$ gallons at \$0.042 per gallon....	923 99	1,079 68	
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$65 00		
Pay rolls.....	13,888 42	13,953 42	
<i>Buildings.</i>			
Building repairs and heating apparatus.....		158 25	
DEPARTMENT OF PHYSICAL THERAPEUTICS.			37,380 99
<i>General Supplies.</i>			
Printing and stationery.....	\$71 84		
Dry goods, clothing, uniforms, caps.....	274 46		
Bedding.....	278 38		
Furniture and furnishings.....	262 00		
<i>Carried forward</i> .....	\$886 68		\$1,448,377 42

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.—*Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i> .....	\$886 68	.....	\$1,448,377 42
DEPARTMENT OF PHYSICAL THERAPEUTICS. — <i>Concluded.</i>			
<i>General Supplies.</i> — <i>Concluded.</i>			
Electrical appliances.....	96 50		
Cartage and freight.....	4 10	\$987 28	
<i>Medical Supplies.</i>			
Surgical instruments and appliances.....	\$1,001 80		
Gauze, dressings and absorbent cotton.....	643 95	1,645 75	
<i>Salaries and Labor.</i>			
Pay rolls.....		10,159 97	12,793 00
DEPARTMENT OF SOCIAL WORK.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$436 36		
Furniture and furnishings.....	26 35		
Telephone rentals.....	426 83		
Telephone, telegraph and messenger service..	93 38		
Transportation.....	458 00	\$1,440 92	
<i>Salaries and Labor.</i>			
Pay rolls.....		11,693 79	13,134 71
SETTLEMENT ACCOUNT.			
Printing, stationery and postage.....	\$584 48		
Furniture and furnishings.....	96 70	\$681 18	
<i>Salaries and Labor.</i>			
Pay rolls.....		695 57	1,376 75
Total disbursements.....			\$1,475,681 88
STOCK ON HAND FEBRUARY 1, 1923.			
<i>All Departments.</i>			
General supplies.....		\$35,852 26	
Fuel.....		8,329 52	
Medical supplies.....		11,147 97	
Liquors.....		324 25	55,654 00
Total expenditures for all purposes.....			\$1,531,335 88
<i>Carried forward</i> .....			\$1,531,335 88

DISBURSEMENTS FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924,  
INCLUSIVE.—*Concl.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i> .....			\$1,531,335 88
DEDUCT.			
STOCK ON HAND FEBRUARY 1, 1924.			
General supplies.....		\$40,903 94	
Fuel.....		4,035 52	
Medical supplies.....		12,931 04	
Liquors.....		110 50	
			57,981 00
Total maintenance expenses.....			\$1,473,354 88
DEDUCT REVENUE.			
Income from paying patients:			
Collected by hospital.....	\$168,640 59		
Collected by City Collector for contagious cases.....	25,100 16		
		\$193,740 75	
Revenue on account of maintenance:			
Interest on trust funds.....		2,424 00	
Sundry revenue:			
Sale of bones, trimmings and old material.....		974 14	
Commission on automatic telephones.....		292 33	
Birth fees.....		190 75	
Interest on bank deposit.....		123 96	
Rent for West Department.....		38,106 25	
Forfeiture on bid.....		300 00	
Penalty on coal.....		51	
			236,152 69
Net cost to the city for maintaining all departments from February 1, 1923, to January 31, 1924, inclusive.....			\$1,237,202 19



Table No. 5.

COMPARISON OF THE CENSUS AND EXPENDITURES AT THE BOSTON CITY HOSPITAL FOR THE FISCAL YEARS ENDING JANUARY 31, 1920, 1921, 1922, 1923, 1924.

POPULATION.	1919-20.	1920-21.	1921-22.	1922-23.	1923-24.
Number of patients at beginning of year.....	893	945	995	1,026	1,140
Number admitted during year.....	19,475	19,383	21,569	25,985	27,216
Number discharged during year, including deaths.....	19,423	19,333	21,538	25,871	27,182
Number remaining at end of year...	945	995	1,026	1,140	1,174
DAILY AVERAGE OF DAYS' BOARD GIVEN.					
Patients.....	763.3	780.6	898.6	962.3	1,056.6
Officers and employees.....	625.2	614.6	642.7	644.9	675.5
House officers and special nurses...	79.0	91.2	106.4	112.8	132.6
Total.....	1,467.5	1,486.4	1,647.7	1,720.0	1,864.7
EXPENDITURES.					
Ordinary expenditures:					
Personal service.....	\$446,346 63	\$525,841 24	\$592,195 59	\$650,567 92	\$720,838 70
Service other than personal.....	32,190 19	36,158 17	38,424 42	43,386 09	57,974 23
Equipment.....	51,078 39	60,420 88	66,213 31	79,840 64	106,319 08
Supplies.....	431,824 67	532,616 72	431,178 22	451,461 64	536,895 79
Materials.....	24,703 84	33,865 34	25,802 14	31,380 97	33,862 20
Special items.....	2,478 73	1,340 86	2,497 05	3,555 43	3,218 18
Incidental expenditures.....	3,095 34	523 33	1,316 00	171 21	
Extraordinary expenditures (permanent improvements):					
Service other than personal.....	8,976 05	29,705 97	74,544 88	18,328 67	16,573 70
Equipment.....	2,851 50	17,886 47		1,375 00	
Materials.....		332 31			
Incidental expenditures.....	674 50	600 00			
Totals.....	\$1,004,219 84	\$1,239,291 29	\$1,232,171 61	\$1,280,067 57	\$1,475,681 88

## PER CAPITA COSTS.

*February 1, 1923, to January 31, 1924, Inclusive.*

	Per Visit.	Per Day.	Per Week.
Hospital proper:			
Per ward patient (after deducting cost of new construction).....		\$3 41	\$23 85
Per person for uncooked food supplies.....		42	2 95
Per out-patient, per visit.....	\$0 49		
South Department:			
Per patient (after deducting cost of new construction).....		3 12	21 81
Per person for uncooked food supplies.....		38	2 65
Hospital proper and South Department, together:			
Per ward patient (after deducting cost of new construction).....		3 34	23 41
Haymarket Square Relief Station:			
Per ward patient.....		3 34	23 41
Per out-patient, per visit.....	1 80		
East Boston Relief Station:			
Per ward patient.....		3 34	23 41
Per out-patient, per visit.....	1 17		
Convalescent Home:			
Per patient.....		2 60	18 22
All departments:			
Per person for uncooked food supplies.....		41	2 90

Table No. 6.  
REVENUE FROM ALL SOURCES FOR THE YEAR FEBRUARY 1, 1923, TO JANUARY 31, 1924, INCLUSIVE.

	Hospital Proper.	South Depart- ment.	Haymarket Square Relief Station.	East Boston Relief Station.	Conva- lescent Home.	West Depart- ment.	All Depart- ments.	Totals.	Grand Totals.
Revenue, Account of Maintenance:									
Interest on Trust Funds.....	\$2,424 00								\$2,424 00
Sundry Revenue:									
Income from paying patients collected by hospital:									
For ward patients.....	147,057 45	\$7,671 66	\$2,268 72	\$223 76			\$5,306 00	\$162,527 59	
For out-patients.....	3,356 00		1,929 00	828 00				6,113 00	
Received by City Collector for contagious cases.....		25,100 16						25,100 16	
Sale of bones and trimmings.....	587 97	254 77	24 87						193,740 75
Sale of old material:									867 61
Barrels, bottles, etc.....	103 78				\$2 75				106 53
Commission on automatic telephones.....	205 56	57 50	29 27						292 33
Birth fees.....	187 50		1 75	1 50					190 75
Interest on bank deposit.....	123 96								123 96
Rent, West Department.....						\$38,106 25			38,106 25
Forfeiture on bid, Hygiene Fibre Company.....	300 00								300 00
Penalty on coal.....	51								51
Totals.....	\$154,346 73	\$33,084 09	\$4,253 61	\$1,053 26	\$2 75	\$38,106 25	\$5,306 00		\$230,152 69

The tables of disbursements in this report show the expenditures of the Hospital Department during the fiscal year February 1, 1923, to January 31, 1924, inclusive. Tables No. 1 and No. 2 show the disbursements in various subdivisions with per capita costs. Table No. 2 shows the hospital proper combined with South Department to form the main hospital. Table No. 3 shows the expenditures according to the budget classification. Table No. 4 shows the detailed disbursements in various subdivisions. Table No. 5 is a comparison of the census and expenditures for the past five years. Table No. 6 is a statement of the revenue received from all sources during the year.

The total expenditures for the fiscal year for Hospital Department, in the various branches, have been \$1,475,681.88 and the disbursements have been made as follows:

For personal service . . . . .	\$720,838 70
Service other than personal . . . . .	74,547 93
Equipment . . . . .	106,319 08
Supplies . . . . .	536,895 79
Materials . . . . .	33,862 20
Special items . . . . .	3,218 18
Total . . . . .	<u>\$1,475,681 88</u>

The hospital proper has six subdivisions, the hospital (wards) proper, Out-Patient Department, Laboratories, X-Ray and Photographic Department, Department of Physical Therapeutics, Department of Social Work.

The expenditures for the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home are kept in separate tables.

The average weekly expenditure per ward patient in the hospital proper was \$23.85; at South Department, \$21.81; at the main hospital (hospital proper and the South Department combined), \$23.41. At the Convalescent Home the average weekly expenditure per patient was \$18.22.

The expenditure per visit per out-patient at the hospital proper was 49 cents; at the Haymarket Square Relief Station, \$1.80; at the East Boston Relief Station, \$1.17.

The expenditure per person for uncooked food supplies in all the hospital departments was \$2.90 per week or 41 cents per day.

The total expenditures of the Hospital Department have been \$1,475,681.88, but the net cost of the city for maintaining it was only \$1,237,202.19.

The maximum number of patients in the hospital proper on any one day was 909, as against 877 in the previous year. The minimum number was 664 in comparison with 604 for the previous year. The daily average during the year was 804.3, and the average length of stay was 13.7 days.

There have been treated in the various out-patient departments at the hospital proper 38,690 patients. Other statistics may be found elsewhere, including the number of out-patients, number of their visits, rate of mortality, work of ambulances, census of days' board for all persons, the nativity of patients admitted and physical condition of patients when discharged.

The total number of deaths from February 1, 1923, to January 31, 1924, was 1,670. This does not include the statistics of the South Department, but only the main hospital.

Of the deaths, there occurred within

48 hours of admission . . . . .	584 or 2.7 per cent
Other deaths . . . . .	1,086 or 5.1 per cent

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Total . . . . .	1,670 or 7.8 per cent,
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the rate of mortality for the year ending January 31, 1924.

This percentage of deaths is for the total number of patients treated in the hospital. The deaths occurring within forty-eight hours of admission (584) were 35 per cent of the whole number of deaths (1,670).

During the year 21,469 patients were treated in the wards of the main hospital, 38,690 as out-patients,



318 at the Convalescent Home, 2,809 at the South Department; at the Haymarket Square Relief Station 3,537 were treated in the wards and 26,030 as out-patients, and at the East Boston Relief Station 223 were treated in the wards and 10,705 as out-patients, a total of 28,356 ward patients and 75,425 out-patients who have received the benefits of the hospital in all departments.

During the year 21,086 persons applied for admission at the main hospital. Of this number 20,622 were admitted and 464 rejected. This number rejected was 2 per cent of all persons applying, and the causes of rejection appear in the table of applicants not admitted on page 76.

There were 670 self-rejected or deferred. Of these, 405 were admitted within three days and 108 admitted later. There were 190 denied admission because they had a state settlement, but of these 40 were admitted within three days and 12 later. Two hundred and eight were rejected for lack of accommodation, but of these 80 were admitted within three days and 26 still later. Seventy were refused admission because they did not reside within the city limits, but 20 of these were admitted within three days and 11 later. Seventeen were denied admission on account of lack of information that they were suitable applicants, but of these 4 were admitted later. Twenty-one were referred to other public institutions on account of the nature of their diseases but of these, six were admitted later.

#### HAYMARKET SQUARE RELIEF STATION.

The following are the principal statistics of the Haymarket Square Relief Station for the year:

Number of patients remaining in Haymarket Square Relief Station, January 31, 1923. . . . .	25
Admitted from February 1, 1923 to January 31, 1924, inclusive. . . . .	3,512
Treated during the year . . . . .	3,537

Discharged during the year . . . . .	3,434	
Died during the year . . . . .	90	
	<hr/>	
Total of discharges and deaths . . . . .		3,524
Number of patients remaining in Haymarket Square Relief Station, January 31, 1924. . . . .		13
Number of out-patients treated during the year . . . . .	26,030	
Largest number of out-patients treated on any one day, . . . . .		113
Number of major surgical operations . . . . .		84
Number of deaths following surgical operations . . . . .		4
Number of deaths within twenty-four hours of ad- mission . . . . .		61
Number of days' treatment given patients in wards . . . . .	4,712	
Largest number of ward patients on any one day . . . . .		28
Smallest number of ward patients on any one day . . . . .		2
Average stay of ward patients in days . . . . .		1.3
Daily average in wards . . . . .		12.9
Number of Relief Station ambulance calls . . . . .	1,181	
Number of ambulance trips for transfer of ad- mitted patients to hospital proper . . . . .	127	
Number of trips for transfer of out-patients to hospital proper . . . . .	14	
	<hr/>	1,322
Patients carried (miscellaneous trips) . . . . .	1,033	
Out-patients transferred to Main Hospital . . . . .	23	
Ward patients transferred to Main Hospital. . . . .	856	
	<hr/>	1,912
Total number of miles run by Relief Station ambu- lances . . . . .		4,738
Number of cases brought in by police ambulances and patrol wagons . . . . .		2,095
Number of cases brought in by carriages and auto- mobiles . . . . .		1,005

## EAST BOSTON RELIEF STATION.

The following are the principal statistics for the year:

Number of patients remaining at the East Boston Relief Station, January 31, 1923. . . . .	4
Admitted from February 1, 1923, to January 31, 1924, inclusive . . . . .	219
	<hr/>
Treated during the year . . . . .	223

Discharged during the year . . . . .	180	
Died during the year. . . . .	42	
	<hr/>	<u>222</u>
Number of patients remaining in East Boston Relief Station, January 31, 1924 . . . . .		1
Number of out-patients treated . . . . .	10,705	
Number of visits of out-patients . . . . .	25,055	
Largest number of out-patients treated on any one day,	209	
Number of major surgical operations . . . . .	5	
Number of deaths within twenty-four hours of admission . . . . .		39
Number of deaths following surgical operations . . . . .		1
Number of days' treatment given patients in wards . . . . .	304	
Largest number of ward patients on any one day . . . . .	6	
Smallest number of ward patients on any one day . . . . .	0	
Average stay of ward patients in days . . . . .	1.4	
Daily average in wards . . . . .	.8	
Number of cases accidentally injured admitted to wards . . . . .		198
Number of ambulance trips:		
By Relief Station ambulance (transferring patients to Main Hospital) . . . . .	20	
By Relief Station ambulance (bringing patients to Relief Station). . . . .	231	
	<hr/>	251
By Main Hospital ambulance (transferring patients to Main Hospital) . . . . .		189
Number of patients carried in ambulances:		
By Relief Station ambulance (transferring patients to Main Hospital) . . . . .	20	
By Relief Station ambulance (bringing patients to Relief Station) . . . . .	210	
	<hr/>	230
By Main Hospital ambulance (transferring patients to Main Hospital) . . . . .		189
Miles run by ambulances:		
By Relief Station ambulance (transferring patients to Main Hospital) . . . . .	140	
By Relief Station ambulance (bringing Patients to Relief Station) . . . . .	1,516	
	<hr/>	1,656
By Main Hospital ambulance (transferring patients to Main Hospital) . . . . .		1,323

Number of cases brought in by police ambulances and patrol wagons . . . . .	371
Number of cases brought in by carriages and automobiles . . . . .	300

## CONVALESCENT HOME.

The statistics of the Convalescent Home, which has just completed its thirty-third year, are as follows:

Number of patients in Home, January 31, 1923 . . . . .	14
Admitted during the year . . . . .	304
Total treated during the year . . . . .	318
Discharged during the year . . . . .	308
Number remaining in Home, January 31, 1924 . . . . .	10
Number of days' board given patients . . . . .	5,720
Largest number of patients on any one day . . . . .	27
Smallest number of patients on any one day . . . . .	3
Daily average number of patients . . . . .	15.7
Average stay of patients in days . . . . .	18

## MEDICAL LIBRARY.

Number of books in library, February 1, 1923 . . . . .	3,719
Number of books added to library from February 1, 1923, to January 31, 1924:	
By purchase . . . . .	31
By binding . . . . .	115
By donation . . . . .	37
	<hr/> 183
Number of books in library January 31, 1924 . . . . .	<u>3,902</u>

There have been received during the year 316 medical monographs and reprints and 166 hospital and health reports and 742 periodicals.

## RECORD ROOM.

Number of volumes indexed and prepared for binding . . . . .	237
Cards written:	
For clinical catalogue . . . . .	22,880
For name catalogue . . . . .	20,622
Total . . . . .	<hr/> 43,502

## TRAINING SCHOOL FOR NURSES.

The Training School for Nurses has now completed its forty-sixth year. The changes in the nursing staff have been as follows:

## SUMMARY FROM FEBRUARY 1, 1923, TO JANUARY 31, 1924, INCLUSIVE.

February 1, 1923, the number of nurses was . . . 255

During the year nurses came as follows:

Supervisors employed . . . . .	3	
Graduates employed . . . . .	9	
Graduates re-employed . . . . .	6	
Graduates retained . . . . .	12	
Pupils reinstated . . . . .	1	
Probationers came . . . . .	58	
Probationers reinstated . . . . .	2	
Male graduates employed . . . . .	4	
Male pupils came . . . . .	10	
Male pupils reinstated . . . . .	2	
Nurses from affiliated schools:		
Butler Hospital pupils (male) . . . . .	3	
Cambridge City Hospital . . . . .	7	
Chelsea Memorial Hospital . . . . .	4	
Cambridge Hospital . . . . .	29	
Waltham Training School . . . . .	6	
New England Hospital . . . . .	6	
Worcester State Hospital . . . . .	8	
Taunton State Hospital . . . . .	7	
Danvers State Hospital . . . . .	1	
Medfield State Hospital . . . . .	4	
Boston State Hospital . . . . .	3	
Grafton State Hospital . . . . .	3	
Long Island Hospital . . . . .	20	
Homeopathic Hospital . . . . .	11	
Leonard Morse Hospital . . . . .	6	
Paine Hospital . . . . .	2	
<hr/>		<hr/>
<i>Carried forward</i> . . . . .	227	255



<i>Brought forward</i> . . . . .	227	255
Melrose Hospital . . . . .	1	
Special nurses employed . . . . .	3,027	
	<hr/>	3,255
		<hr/>
		3,510

During the year nurses left as follows:

Supervisors resigned . . . . .	2
Graduates resigned . . . . .	18
Graduates dropped . . . . .	1
Graduate died . . . . .	1
Pupils graduated . . . . .	23
Pupils dropped . . . . .	7
Pupils left . . . . .	6
Probationers left . . . . .	7
Probationers dropped . . . . .	6
Male pupils graduated . . . . .	4
Male pupils left . . . . .	8
Male pupils dropped . . . . .	3
Male graduate left . . . . .	1

Pupils from affiliated schools have completed  
courses as follows:

Butler Hospital . . . . .	2
Taunton State Hospital . . . . .	7
Worcester State Hospital . . . . .	8
Grafton State Hospital . . . . .	3
Boston State Hospital . . . . .	1
Medfield State Hospital . . . . .	1
Chelsea Memorial Hospital . . . . .	4
New England Hospital . . . . .	6
Waltham Training School . . . . .	4
Cambridge Hospital . . . . .	23
Cambridge City Hospital . . . . .	6
Leonard Morse Hospital . . . . .	6
Long Island Hospital . . . . .	10
Homeopathic Hospital . . . . .	6
Affiliated pupils dropped . . . . .	6
Affiliated pupils left . . . . .	3
Special nurses left . . . . .	3,023
	<hr/>

3,206

Total number remaining February 1, 1924 . . .

304

NURSES CONNECTED WITH THE SCHOOL JANUARY 31,  
1924.

*Main Hospital:*

Superintendent of nurses . . . . .	1
Assistant superintendents of nurses . . . . .	4
Instructors . . . . .	3
Graduate head nurses . . . . .	36
Special nurses . . . . .	57
Boston City Hospital pupil nurses (female) . . . . .	66
Boston City Hospital pupil nurses (male) . . . . .	9
Boston City Hospital graduates (male) . . . . .	5
Probationers . . . . .	14

Affiliated nurses as follows:

Butler Hospital (male) . . . . .	3
Worcester State Hospital (male) . . . . .	1
Long Island Hospital . . . . .	14
Worcester State Hospital . . . . .	3
Taunton State Hospital . . . . .	6
New England Hospital . . . . .	1
Boston State Hospital . . . . .	3
Grafton State Hospital . . . . .	3
Medfield State Hospital . . . . .	1
Cambridge Hospital . . . . .	11
Paine Hospital . . . . .	2
Homeopathic Hospital . . . . .	4
Danvers State Hospital . . . . .	1

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*South Department:*

Matron . . . . .	1
Day supervisor of nurses . . . . .	1
Night supervisor of nurses . . . . .	1
Graduate head nurses . . . . .	7
Special nurses . . . . .	6
Boston City Hospital pupils . . . . .	13

Affiliated pupils as follows:

Worcester State Hospital . . . . .	3
Cambridge City Hospital . . . . .	3
Waltham Training School . . . . .	1
Leonard Morse Hospital . . . . .	2
Medfield State Hospital . . . . .	2

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<i>Carried forward . . . . .</i>	40	248
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<i>Brought forward</i> . . . . .	40	248
Melrose Hospital . . . . .	1	
Chelsea Memorial Hospital . . . . .	1	
	—	42
<i>Haymarket Square Relief Station:</i>		
Matron . . . . .	1	
Graduate head nurses . . . . .	2	
Boston City Hospital pupils . . . . .	4	
	—	7
<i>East Boston Relief Station:</i>		
Head nurse . . . . .	1	
Boston City Hospital pupils (female) . . . . .	2	
Boston City Hospital pupil (male) . . . . .	1	
New England Hospital . . . . .	1	
	—	5
<i>Convalescent Home:</i>		
Matron . . . . .	1	
Head nurse . . . . .	1	
	—	2
Total . . . . .		<u>304</u>

## TRAINING SCHOOL REPORT.

Sixty-one probationers have been admitted to the school during the past year. Of this number forty-eight were permitted to become members of the school. Ninety-eight pupils from schools affiliating with the Training School were admitted. Of these fifty-nine have received certificates and the remainder are completing courses. Seven male nurses have been admitted during the year.

The following schools are affiliating with us beginning this year: Danvers State Hospital, for one-year course in general nursing; Quincy City Hospital, for three months' course in Contagious Diseases; Homeopathic Hospital of Rhode Island, for three months' course in Pediatrics; Paine Hospital, Bangor, Maine, for three months' medical course and three months' course in Obstetrics.

The opportunities for the pupils in medical nursing have been greatly increased by the metabolism work

done in the Thorndike Ward. The lectures in mental diseases have been increased to sixteen. The appointment of an Instructor of Practice for male nurses has been most satisfactory. Perhaps no other factor has been so helpful in the training of male nurses. The changes made in the curriculum, although few, show an ever steady improvement in the educational system of the school.

We regret the loss of one of our number. Miss Ariel Crossman passed away in September. By Miss Crossman's death the hospital lost a faithful nurse and the Alumnae a valuable member.

#### CHANGES IN THE STAFF OF EXECUTIVES AND MEDICAL ASSISTANTS.

Samuel Nadel, M. D., temporary Third Executive Assistant, resigned in March and M. Winthrop O'Connell, M. D., was appointed to the position.

George H. Hooper, M. D., Resident Surgeon, resigned the first of March, and Benedict F. Boland, M. D., Resident Anesthetist, was made Resident Surgeon. Doctor Boland left the first of October and Robert M. Coleman, M. D., who had served as Resident Anesthetist from April to October, was made Resident Surgeon. Francis X. Shea, M. D., graduating House Officer, was then made Resident Anesthetist.

Frederick Parker, Jr., M. D., returned from his studies at Columbia University to be Assistant Pathologist in August.

Marjorie Fulstow, M. D., Research Assistant in Pathology, left to take another position the first of April, and Cheng Hsiang Hu, M. D., Second Assistant in Pathology, succeeded to the position of Research Assistant in Pathology.

Joseph T. Egan, M. D., First Assistant in Pathology, left in July and Shields Warren, M. D., was appointed to the position.

Edward S. Mills, M. D., was appointed Second

Assistant in Pathology in April. He resigned in August and Charles F. Branch, M. D., was appointed to the position.

The following Assistants in the Thorndike Laboratory have been appointed during the year: Robert N. Nye, M. D., beginning in March; Joseph T. Wearn, M. D., beginning in October; Gulli Lindh Muller, M. D., beginning in October.

Elmer H. Heath, Jr., M. D., was appointed Resident Physician and Assistant in the Thorndike Laboratory, beginning in July. He resigned in December and Karl F. Pelkan, M. D., was appointed to the position. Hermann Blumgart, M. D., was appointed Resident Physician and Assistant in the Thorndike Laboratory, beginning in January, 1924.

The following Volunteer Assistants began service in the Thorndike Laboratory in October, 1923, for the term of one year: Donald King, M. D., John H. Foster, M. D., and Walfrido de Leon, M. D.

Forrest B. Ames, M. D., Assistant Physician for X-Ray Service resigned in May and Max Ritvo, M. D., was appointed to the position.

Herbert C. Soule, M. D., Resident Physician for Pediatric Service, left in October, after a year's service. Richard C. Tefft, M. D., was appointed Assistant Resident Physician for Pediatric Service in May. Upon Doctor Soule's resignation, Doctor Tefft was made Resident Physician and Dan C. Darrow, M. D., was appointed Assistant Resident Physician for Pediatric Service.

Franz Gill Edwards, M. D., served as Resident Physician for Tropical Diseases from March until June.

Clarence F. Friedman, M. D., was appointed Resident Physician for Pneumonia Cases in December, 1923.

At the South Department, Sidney H. Weiner, M. D., Assistant Physician, resigned in February. Morris Prizer, M. D., graduating House Officer, was then appointed Assistant Physician. Benjamin J. Berger,



M. D., Assistant Physician, resigned in July, and Richard G. Watson, M. D., was appointed to succeed him. In December, John J. Dunphy, M. D., was appointed Assistant Physician. Lee E. Sutton, M. D., Assistant Physician, has been on leave of absence for study abroad since July.

At the East Boston Relief Station, Carl A. Peterson, M. D., Assistant Resident Surgeon, left in April, and Saul Berman, M. D., graduating House Officer, was appointed to the position. Doctor Berman left in June. Henry S. Finkel, M. D., graduating House Officer, served as Assistant Resident Surgeon from July until September. Arthur G. Holland, M. D., was appointed Assistant Resident Surgeon in September.

The outstanding event of the year was the dedication of the Thorndike Memorial Building, which took place on November 15. The various departments of this building are now functioning, and the benefits resulting will be greatly appreciated as the years go by.

The completion of the sprinkler system reduces the fire hazard to a minimum, as every part of the hospital buildings is now protected by sprinklers.

His Honor the Mayor and the City Council generously provided \$180,000 to prepare plans for new construction, which will provide additional beds, and thus relieve the overcrowding of the last few years. His Honor the Mayor also presented a petition to the Legislature to provide \$3,000,000 for this work. This makes the prospect for the future very bright.

I desire to thank the Trustees, executive officers and all others for the splendid co-operation and assistance rendered during the year.

JOHN J. DOWLING, M. D.,  
*Superintendent and Medical Director.*

## BEQUESTS.

## FUNDS WITH INTEREST ONLY AVAILABLE.

<i>Ball Fund.</i> —For the benefit of patients leaving the hospital poor and destitute of proper clothing . . . . .	\$1,000 00
<i>William T. Bolton Fund.</i> —For the benefit of the Boston City Hospital . . . . .	500 00
<i>Herbert L. Burrell Ether Prize Fund.</i> —For a money prize to be given to the house officer who administers ether or other anesthetic in the most skilful and humane manner . . . . .	1,000 00
<i>Martha Howard Thurston Carter Fund.</i> —For books for the benefit of the Training School for Nurses . . . . .	2,000 00
<i>Cheever Fund.</i> —To purchase and present to each house surgeon when his service expires a pocket case of surgical instruments, as a gift from Dr. David W. Cheever . . . . .	3,500 00
<i>Patrick A. Collins Memorial Library Fund.</i> —For the purchase of new books for the use of hospital patients and for the replacing of those that have become damaged, lost or destroyed . . . . .	500 00
<i>Silas Durkee Fund.</i> —For the benefit of The Boston City Hospital . . . . .	15,050 00
<i>Daniel S. Ford Fund.</i> —For the benefit of The Boston City Hospital . . . . .	6,000 00
<i>Ann Maria Fosdick Fund.</i> —To be used for employment of special nurses . . . . .	8,000 00
<i>Goodnow Fund.</i> —For the support of free beds . . . . .	26,000 00
<i>Goodnow Library Fund.</i> —For replenishing the library of the hospital with books, and pamphlets suitable for the reading of the patients during convalescence . . . . .	1,000 00
<i>Charles P. Hemenway Fund.</i> —For a free bed, to be known as the Charles P. Hemenway Memorial Bed . . . . .	5,000 00
<i>Carried forward</i> . . . . .	<u>\$69,550 00</u>

<i>Brought forward</i> . . . . .	\$69,550 00
<i>Dr. George S. Hyde Fund.</i> —For the support of a free bed . . . . .	5,000 00
<i>Nichols Fund.</i> —For the establishment and endowment of a City Hospital . . . . .	2,000 00
<i>Norcross Fund.</i> —For the benefit of patients leaving the hospital poor and destitute of proper clothing . . . . .	2,000 00
<i>Nurses' Fund.</i> —To be used under direction of superintendent and staff for employment of special nurses . . . . .	10,233 00
<i>Perkins Fund.</i> —For books for the Medical Library, and for the purchase of artificial limbs and surgical appliances for the use and relief of patients leaving the hospital . . . . .	7,500 00
<i>Shaw Fund.</i> —For the purchase of flowers and fruit for the use and comfort of the patients in the hospital . . . . .	2,000 00
<i>Hettie Lang Shuman Memorial Library Fund.</i> —To be expended in perpetuity by the Trustees for new books for the use of hospital patients and for the replacing of volumes that have become damaged, lost or destroyed . . . . .	2,000 00
<i>Timothy Smith Fund.</i> —For the purpose of maintaining and conducting The Boston City Hospital . . . . .	5,000 00
<i>Joseph Thompson Fund.</i> —To be used for employment of special nurses (Bonds \$3,000.00; cash \$15.32) . . . . .	3,015 32
<i>Catherine Watson Fund.</i> —For a free bed, to be known as the William F. Watson Free Bed (Interest to be allowed to accumulate until fund reaches \$25,000.00) . . . . .	6,000 00
<i>Mehitable C. C. Wilson Fund.</i> —For the benefit of Medical Library . . . . .	500 00
Total . . . . .	<u>\$114,798 32</u>

## HOUSE RULES.

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WITH RULES FOR ADMISSION, GOVERNMENT AND DIS-  
CHARGE OF PATIENTS; ALSO RULES FOR VISITORS.

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### HOUSE RULES.

The doors and gates of the hospital will be closed at ten o'clock in the evening, at which time all inmates, excepting head nurses, who are permitted to remain out until twelve o'clock midnight, shall be quiet, and all not on duty shall be in their rooms, unless otherwise specifically permitted.

All officers, nurses and employees of the hospital, when going and coming to and from the hospital, shall enter and go out by the entrance office, and by no other entrance. Such officers and employees as are required shall use the time register and method of booking that the hospital rules require.

A record shall be kept of all persons entering the hospital between the hours of 10 o'clock in the evening and 7.30 o'clock in the morning.

No employee shall be absent from the hospital except when permitted by special rules or by the Superintendent.

No officer, nurse, male nurse or other employee shall, directly or indirectly, receive money or other gifts from or in behalf of patients, except with the approval of the Superintendent.

The use of tobacco, wine and intoxicating liquors is prohibited within the hospital, unless prescribed by the physicians or surgeons.

All profane and improper language, loud talking and incivility are prohibited.

All employees shall observe such further rules and directions for their conduct as may from time to time be established.

## ADMISSION OF PATIENTS.

Application for admission may be made at the hospital on each day of the week (Sunday excepted) between nine o'clock a. m. and five o'clock p. m. Whenever able, a patient shall apply in person for admission. When not able to apply in person, a patient may be admitted on application made by his physician, or upon a visit to his residence by the admitting physician.

No person having acute venereal disease or alcoholism shall be admitted unless his condition is urgent, except as a paying patient.

No person shall be admitted to the hospital whose case is judged to be incurable, unless there be urgent symptoms which are deemed capable of being relieved.

Persons with state settlements, unless they stand in need of immediate relief, are to be referred to the state hospitals.

Patients settled in other cities and towns in Massachusetts are to be referred to their own city or town for treatment, Boston cases being given the preference.

Unsettled cases, if resident in Boston, may be admitted as paying patients.

Patients may be admitted to the privileges of the hospital at such rate of board as the trustees may from time to time by vote determine, payment for such cases being secured by the friends of the patients or by the authorities of the city or town in which the patient is legally settled.

Whenever, in the opinion of the trustees, the circumstances of the patient will warrant it, the whole or a part of the board shall be paid.

If separate apartments or articles not usually furnished at the hospital are furnished, such payment shall be made therefor as the trustees shall deem reasonable.

Persons non-resident and non-settled in Boston are to be admitted only as private patients, *i. e.*, paying patients in private rooms.



All accident or emergency cases shall be received at all hours, night or day, irrespective of settlement.

In all cases where any question arises as to the treatment of newly admitted or other patients, it shall be the duty of the house officer to consult with the executive on duty in regard to such treatment until the arrival of his visiting physician or surgeon.

If in the judgment of the admitting physician the condition of a newly admitted patient is sufficiently urgent to demand the attention of the visiting staff, he shall so notify the house officer and shall direct him to call his visiting physician or surgeon.

In case alcohol is administered to a patient before or after placing him in the ambulance, or by any other than hospital employees, before the arrival of the ambulance, the same is to be promptly reported to the admitting physician, and a record of the fact made in the clinical record book. This rule covers cases brought by conveyances other than hospital ambulances.

#### GOVERNMENT OF PATIENTS.

Patients shall implicitly observe all the rules of the hospital.

Patients shall be in their proper places in the wards during the visits of the physicians and surgeons, and always before 7.30 o'clock in the evening, unless specially excused by the Superintendent.

Such free patients as are able shall assist in nursing and perform such other services as may be reasonably required of them.

No patient shall leave the hospital grounds without a pass from the Superintendent, nor leave his ward without the consent of the nurse in charge.

No patient shall purchase, or cause to be purchased for him, any article of food whatsoever, or any other article, without the consent of the Superintendent.

Profane and obscene language, loud talking and incivility are prohibited.

Patients may be visited by clergymen of their own selection, and any wish for the performance of a particular religious rite shall be granted when practicable.

Complaints, for whatever cause, may be made to the Superintendent, and whenever requested shall be by him reported to the trustees.

#### DISCHARGE OF PATIENTS.

Patients shall be discharged by the Superintendent.

Patients discharged on the recommendation of the visiting physicians or surgeons shall be provided with a certificate stating their condition at the time of discharge, whether cured, relieved or not relieved, which certificate shall be signed by the Superintendent.

Whenever a patient is removed from the hospital without the approval of the Superintendent, a written statement to that effect shall be required from any person assuming the responsibility of the removal.

#### VISITORS.

No person shall visit any part of the premises except on business, or at such times as may be fixed for the reception of visitors, without the permission of the Superintendent or of some one of the trustees.

Daily, from 2 to 3 o'clock in the afternoon, friends may be permitted to visit patients, though no patient shall receive more than two visitors at that hour; and from 6 to 6.30 o'clock on each week day friends may be permitted to visit patients, though no patient shall receive more than one visitor at that hour. In all cases, however, the trustees and the Superintendent may exercise discretionary powers as to excluding or admitting visitors.

When visitors are admitted outside of the regular visiting hours they shall not be permitted to remain more than half an hour, except a special permission to remain for further time is granted.

All visitors shall leave the hospital when the bell rings at the expiration of the visiting hour.

No visitor shall take any meal in the hospital, or pass the night therein, without permission of the Superintendent or one of the trustees.

No visitor shall be allowed to give any article of food or drink to a patient unless by permission of the nurse; and any article sent to a patient shall be left at the entrance office.

## SPECIAL RULES FOR THE GOVERNMENT OF THE SOUTH DEPARTMENT.

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The department of the Boston City Hospital located on the westerly side of Massachusetts avenue shall be designated as the South Department of The Boston City Hospital. It shall receive patients who require treatment for diphtheria, scarlet fever, measles, whooping cough, and for other infectious diseases as may be determined from time to time by the trustees.

The Superintendent and Medical Director of the hospital shall, under the direction of the trustees, have the general control and management of this department in the same manner as of other departments of the hospital.

The rules of the hospital shall, so far as applicable, and except as hereinafter provided, apply to the various officers and employees and to the conduct and management of this department.

## SPECIAL RULES FOR THE GOVERNMENT OF THE HAYMARKET SQUARE AND THE EAST BOSTON RELIEF STATIONS.

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The Boston City Hospital Relief Stations are established not as hospitals, but as departments of the Boston City Hospital for temporary relief, and the rules and methods prevailing now in the hospital shall, so far as applicable, and not inconsistent with special rules, apply to the Relief Stations.

The stations shall afford temporary relief in all classes of accident and disease. They shall be open at all hours for patients requiring treatment or attention. Patients requiring ward treatment, whether received at the stations or taken up in ambulances, shall, so far as is consistent with their welfare, be forthwith transferred or carried to the hospital for extended treatment, but ward accommodations shall be afforded patients whose condition is such that they cannot properly be transferred. Patients may, however, if it is deemed desirable, be transferred by the ambulances to other hospitals or to their homes. First treatment may be afforded at the stations, although the applicants are not such as require ward treatment.

The Superintendent of the Hospital shall have the general administration, management and control of the stations, the same as of other departments of the hospital.

The Superintendent shall, once a year, nominate for confirmation by the trustees a Resident Surgeon and one or more Assistant Resident Surgeons for each station; and shall appoint and employ or detail for service in each department, from time to time, as may be necessary, subject to the approval of the trustees or of the proper committees, a Matron, a Supervisor, nurses, male nurses



and such other minor employees as may be required for the proper conduct of the station, who shall be subject to his supervision.

The various officers and employees of the stations shall perform such duties other than those specified as may be required by the trustees or the Superintendent, according to the nature of their respective duties. The Resident Surgeons, the Matron, Supervisors and such other officers as may be so required shall reside at the stations.

#### PATIENTS.

Alcoholic and insane patients shall not be received unless there is surgical or medical complication making hospital treatment absolutely necessary.

No patient, after being admitted to the wards, shall leave the station until his discharge without a pass from the proper officer, nor shall he visit other parts of the station without permission.

Ward patients shall be discharged by the Superintendent or Resident Surgeon.

#### AMBULANCE SERVICE AT THE HAYMARKET SQUARE RELIEF STATION.

The ambulance service of the station shall be under the direct control of the Resident Surgeon, and shall co-operate with that of the hospital with which it shall form one general system. Ambulances shall, in response to calls, be dispatched from the station or the hospital as the exigency may require. The utmost dispatch shall be exercised in the ambulance service, so far as is consistent with a regard for the welfare of the patient and the interest of the public.

Ambulances shall in general be sent from the station or the hospital at least upon a general alarm to all fires occurring in the city proper and in such further districts as may be determined upon.

An ambulance shall be held during the hours of the

day in complete readiness to make immediate response to calls, and shall be kept in condition to make prompt response to calls at any time of the night.

A house officer shall accompany the ambulance, shall direct its course and shall have direction of the care and treatment of the patient until received at his destination.

The foreman of the ambulance service at the hospital station shall visit and inspect the Ambulance Department of the station from time to time, but the immediate carrying out of directions shall be under the assistant foreman at the station.

#### AMBULANCE SERVICE AT THE EAST BOSTON RELIEF STATION.

The rules and methods prevailing in the Haymarket Square Relief Station ambulance service shall, so far as applicable, be effective in the East Boston Relief Station ambulance service.

## SPECIAL RULES FOR THE GOVERNMENT OF THE CONVALESCENT HOME.

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The department of the Boston City Hospital located on Dorchester avenue, in Dorchester, shall be known as the Convalescent Home, and shall receive such patients recovering from acute diseases as shall be transferred to it from the main hospital for treatment during convalescence.

The Superintendent of the Hospital shall, under the direction of the trustees, have the control and management of the Convalescent Home in the same manner as of other departments of the hospital.

The Superintendent shall appoint, subject to the approval of the trustees, a Matron, and shall employ, under their direction, such further assistants as may be necessary for the proper conduct and service of the home.

The Matron, under the direction of the Superintendent, shall have the immediate charge of the home and the control of all nurses and other employees and patients. She shall reside at the home.

### VISITORS.

Friends may be permitted to visit patients daily between three and four o'clock in the afternoon. In all cases the trustees, Superintendent and Matron may exercise discretionary powers as to excluding or admitting visitors.

Visitors shall leave the home and grounds at the expiration of the visiting hour, and shall visit no part of the home or grounds other than the reception room, except by permission from the proper authority.

No person shall give any article of food or drink to a patient unless by permission of the Matron.









